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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
AIR FORCE SYSTEMS COMMAND

RESEARCH PROPOSAL
QUARTERLY STATUS REPORT



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APRIL - JUNE 1989

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RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

JULY 1989

PREPARED BY:
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TECHNICAL DOCUMENTS SECTION
AFOSR/XOTD
BOLLING AFB, DC 20332-6448
(202) 767-4912 or AUTOVON 297-4912

INTRODUCTION

This Research Proposal Status Report is published quarterly as of March, June, September, and December of each year. It lists all the research proposals received by the Air Force Office of Scientific Research (AFOSR) in the six month period prior to the date of this report. Normally, decisions and actions are made within six months after receiving a research proposal. The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report. The report is divided into two parts: Part I is the Institution Index which lists the proposals received, alphabetically by Institution. Part II is the AFOSR Directorate Index in which the proposals received are listed alphabetically by Directorate and alphabetically by AFOSR Program Manager within the Directorate. Any questions regarding this report, please contact Ms. Debra Tyrrell at (202) 767-4912 or Autovon 297-4912.

PURPOSE

The purpose of the quarterly report is to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Users of the report should read and clearly understand that:

Declined proposals should not necessarily be considered as scientifically unacceptable since many declinations result from a lack of funds or from special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Director of Laboratories, Air Force Systems Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from unsolicited proposals originating from scientists investigating problems, involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATED - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH SCIENTIFIC STAFF DIRECTORY
BOLLING AIR FORCE BASE, DC 20332

CC/CD - OFFICE OF THE DIRECTOR

Commander Col Alan J. Driscoll 5017
Technical Director

NA - DIRECTORATE OF AEROSPACE SCIENCES

	<u>EXT</u>
Director Dr Michael Salkind	4987
Prog Mgr Dr Mitat Birkan	4938
Prog Mgr Dr Anthony Amos	4937
Prog Mgr Dr Spencer Wu	6962
Prog Mgr Dr Julian Tishkoff	0465
Prog Mgr Dr James McMichael	4936
Prog Mgr Maj Steven Boyce	6963
Prog Mgr Lt Col George Haritos	0463
Prog Mgr Cap Henry Helin	0471
Prog Mgr Dr Leonidas Sakell	4935

NL - DIRECTORATE OF LIFE SCIENCES
Acting Director Dr William O. Berry
Expert Consultant Dr John Jonides
Prog Mgr Dr Alfred R. Fregly
Prog Mgr Maj T. Jan Cerveny
Prog Mgr John F. Tangney

EXT
4278
5021
5021
5021
5021

NC - DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

Director Dr. Donald Ball	4960
Prog Mgr Dr. John Wilkes	4960
Prog Mgr Lt Col Larry W Burggraf	4960
Prog Mgr Lt Col Larry P. Davis	4963
Prog Mgr Dr Donald Ulrich	4963
Prog Mgr Dr Anthony Matuszko	4963
Prog Mgr Dr Francis Wodarczyk	4963

NM - DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

Director Dr Charles J. Holland	5025
Prog Mgr Dr Neal Glassman	5026
Consultant Dr Sam Rankin	4940
Prog Mgr Dr Abraham Waksman	5028
Prog Mgr Dr Arje Nachman	4939
Prog Mgr Dr Eytan Barouch	4940

NP - DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCE

Director Col Jerry J. Perrizo	4904
Prog Mgr Dr Ralph Kelley	4908
Prog Mgr Dr Robert Barker	5011
Prog Mgr Dr Howard Schlossberg	4906
Prog Mgr Dr. Henry R. Radoski	4906

NE - DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

Director Dr Horst R. Wittmann	4984
Dep Director Dr Alan Rosenstein	4933
Prog Mgr Dr Cole Litton	4931
Prog Mgr Lt Col Robert W. Carter, Jr.	4931
Prog Mgr Dr Gerald Witt	4931
Prog Mgr Dr Clyde Giles	4931
Prog Mgr Dr Harold Weinstock	4933
Prog Mgr Dr Liselotte Schioler	4933
Prog Mgr Dr Alan Craig	4931

Commercial (202) 767-XXXX
Autovon 297-XXXX

PART I

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROFESSOR	STATUS	PM NAME
AFOSR/FAR EAST	GIPOR	JIMMY		89-XO-025	A	ROBISON
AIR FORCE ENGINEERING & SERVICES CENTER	CORNETTE	ROBERT	N	89-NL-253	A	CERVENY
AIR FORCE INSTITUTE OF TECHNOLOGY	FAIMAN			89-XO-011	A	EDMUND
AMERICAN CHEMICAL SOCIETY	TEBBE	FRED	N	89-NC-256	A	ULRICH
AMERICAN MATHEMATICAL SOCIETY	LAINÉ	RICHARD	M	89-AC-259	A	ULRICH
AMERICAN SOCIETY FOR MICROBIOLOGY	MAXWELL	JAMES	M	89-NM-580	C	NACHMAN
AMERICAN STANDARDS TESTING BUREAU, INC.	KAFLAN	ALAN	M	89-NL-197	A	HOLLAND
ANALYTIC SCIENCES CORPORATION	SILVER	SIMON		89-NL-253	A	CERVENY
ANTICPIX CORPORATION	GLONKIN	ALEXANDER		89-NM-555	A	CERVENY
APPLIED & THEORETICAL MECHANICS INC	HUTCHINSON	KEITH	D	89-NC-267	A	STOBIE
APPLIED RESEARCH CORPORATION	KLANZ	TERRY	M	89-NC-245	A	WODARCZYK
ARIZONA STATE UNIVERSITY	CHAMPNEY	JOELLE	K	89-NA-215	A	SAKELL
	ORLKIER	A.	K	93-NE-296	A	WEINSTOCK
	BAJAJ	KRISHAN	K	89-NE-239	A	LITTON
ARMY ARMAMENT R&D CMC/BALLISTICS RSCH LA	MITTELMANN	HANS	D	89-NE-280	A	LITTON
ARMY RESEARCH OFFICE	ADAMS	GEORGE	F	89-AC-270	A	NELSON
ASTRON RESEARCH & ENGINEERING	CROWSON	ANDREW		89-NC-276	A	DAVIS
ATLANTA UNIVERSITY	NAKAMURA	TAKASHI		89-NC-277	A	ULRICH
ATLANTIC AEROSPACE ELECTRONICS CORP.	BCTA	KABENA	M	89-NA-251	A	TISHKOFF
AWARE, INC.	KHAN	ISHRAT	S	89-NA-277	A	AMOS
BALL SYSTEM ENGINEERING DIVISION	ORR	RICHARD		89-NC-226	A	ULRICH
BOSTON COLLEGE	LANTON	WAYNE	L	89-NM-634	A	BAROUCH
BOSTON UNIVERSITY	RESNIKOFF	HOWARD	L	89-NM-569	A	NACHMAN
	BOWMAN	C.	L	89-NM-626	A	BAROUCH
	BAKSHI	PRADIP		89-NE-263	A	GILES
	CHEN	CHIH-PAN	B	89-NP-166	A	SCHLOSSBER
	GRCSBERG	STEPHEN		89-NM-542	A	WAKSMAN
	KCFELL	NANCY		89-NL-207	A	TANGNEY
	LEMPICKI	ALEXANDER		89-NL-277	A	TANGNEY
	NAGEM	RAYMOND		89-NM-609	A	NACHMAN
	SANDRI	GUIDO		89-NP-179	A	SCHLOSSBER
	RCSNBLUM	MYRON		89-NA-269	A	AMOS
	TRIVEOI	S.	B	89-NA-235	A	SAKELL
	HERSHCOVITCH	ADY		89-NC-250	A	ULRICH
	PASCIAK	JOSEPH	E	89-NE-265	A	WEINSTOCK
	WILLIAMS	G	P	89-NP-174	A	SMITH
	C LIU	JOSEPH	T	89-NM-540	A	NELSON
	CHANDY	K MANI	C	89-NC-258	A	MCMICHAEL
	CRESS	MICHAEL	E	89-NA-226	A	NELSON
	DIPOTAKIS	PAUL	M	89-NM-583	A	NACHMAN
	GCCDMAN	RODNEY	G	89-NA-225	A	HELIN
	KNAUSS	W		89-NE-294	A	GILES
	MARGLE	FRANK	E	89-NA-325	A	HARTOS
				89-NA-229	A	TISHKOFF

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CAMBRIDGE UNIVERSITY (CAVENDISH LAB) CAMBRIDGE UNIVERSITY (TRUMPINGTON ST) CARNEGIE-MELLON UNIVERSITY	MARTIN	SARA	F	89-NP-190	A	RADOOSKI	
	ZIRIN	HAROLD		89-NP-170		RADOOSKI	
	AMCS	ROGER		89-NC-288	A	DAVIS	
	BRAY	K N.	C	89-NA-211	A	TISHKOFF	
	AARONSON	HUBERT	I	89-NE-217	A	ROSENSTEIN	
	CASASANT	DAVID		89-NE-301		GILES	
	MCWE	JAMES	H	89-NE-230	A	ROSENSTEIN	
	MAHAJAN	S.		89-NE-247		LITTON	
	THOMPSON	ANTHONY	W	89-NE-244		ROSENSTEIN	
	WATTEL	ALEX		89-NE-264		GILES	
CASE WESTERN RESERVE UNIVERSITY	FIGUEROA	LUDWIG		89-NA-217		BOYCE	
				89-NA-218		BOYCE	
				89-NA-219		BOYCE	
				89-NA-249		BOYCE	
				89-NP-186	D	RADOOSKI	
CATHOLIC UNIVERSITY OF AMERICA CENTRAL INSTITUTE FOR THE DEAF CHEMICAL DYNAMICS CORPORATION CHRONOS RESEARCH LABS INC. CITY COLLEGE - CUNY	TAVAKOLI	AMIR	C	89-NP-186		RADOOSKI	
	WANG	YUN	D	89-NL-254		TANGNEY	
	MILLER	JAMES	C	89-NC-284		DAVIS	
	GAFFETT	BRUCE	B	89-NE-277	A	WEINSTOCK	
	OLSEN	RANDALL	R	89-NE-236		WITT	
	ALFANG	ROBERT		89-NE-285		GILES	
				89-NP-160		SCHLOSSBER	
				89-NM-578		BAROUCH	
				89-NE-271	D	WEINSTOCK	
				89-NM-504		NELSON	
CITY UNIV OF NEW YORK KJCH FOUNDATION CLARKSON UNIVERSITY	BROWN	MARK	R	89-NE-235	A	CAVENDER	
	ALFANO	ROBERT		89-NA-227		WITT	
	AMAR	HANY		89-NA-240		WU	
	BAROUCH	EYTAN	J	89-NA-240		GLASSMAN	
	DICELLO	JOHN	P	89-NM-500	A	BAROUCH	
	CLAUSER	MARK	L	89-NL-225		CERVENY	
	STEVENS	DAVID	B	89-NM-640		GLASSMAN	
	ADAMS	WARREN	K	89-NC-249	A	ULRICH	
	OSPER	STANLEY	B	89-NC-254		MATUSZKO	
	BUNGE	ANNETTE		89-NC-262		MCMICHAEL	
CLEMSON UNIVERSITY COGNITECH INC COLORADO SCHOOL OF MINES COLORADO STATE UNIVERSITY	POCRE	AUBREY	F	89-NA-275	A	BIRKAN	
	STILLE	JOHN	S	89-NM-489		WAKSMAN	
	EISENTHAL	KENNETH		89-NA-212		AMOS	
				89-NM-646		CROWLEY	
				89-NE-275	D	WEINSTOCK	
				89-NC-279		WODARCZYK	
				89-NM-638	A	NACHMAN	
				89-NA-252		HARITOS	
				89-NA-271		AMOS	
				89-NA-327		AMOS	
COLUMBIA UNIVERSITY	STEEN	P.	H	89-NM-534		NACHMAN	
	STEENHUIS	TAMMO	S	89-NL-224		CERVENY	
COMBUSTION INSTITUTE COMPUTER COMMAND & CONTROL COMPANY CONTROL RESEARCH CORP CORNELL UNIVERSITY	TABOR	MICHAEL	F	89-NA-275		BIRKAN	
	CALCOTE	H.		89-NM-489		WAKSMAN	
	PRYWES	NOAH	S	89-NA-212		AMOS	
	LIN	JIGUAN		89-NM-646		CROWLEY	
	ANANTHARAM	VENKAT	W	89-NE-275	D	WEINSTOCK	
	ASPCRCFT	NEIL	K	89-NC-279		WODARCZYK	
	CARPENTER	BARRY	L	89-NM-638	A	NACHMAN	
	FINE	TERRENCE		89-NA-252		HARITOS	
	JENKINS	JAMES		89-NA-271		AMOS	
	MCCN	FRANCIS		89-NA-327		AMOS	

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CARTMOUTH COLLEGE	HUGHES	RUSSELL	P	89-NC-304		MATUSZKO
CAVIC SARNOFF RESEARCH CENTER	PEARSON	JOHN	C	89-NL-278	A	TANGNEY
	WILLIAMS	RICHARD		89-NC-297		STOBIE
CREXEL UNIVERSITY	COPEN	FERNAND		89-NM-515		WAKSMAN
				89-NM-625		NACHMAN
DUKE UNIVERSITY	WANG	ALBERT	S	89-NA-305		HARITOS
	DI GIULIO	RICHARD	T	89-NL-231		CERVENY
	MADEY	JCHN	M	89-NP-168		SCHLOSSBER
EAST CAROLINA UNIVERSITY	TERRIAN	DAVID	M	99-NL-260	A	BERRY
EAST TEXAS STATE UNIV.	MIN	DR KWANG		89-XC-018	A	CAVENOER
		KWANG	S	89-XC-019		CAVENDER
EASTMAN KODAK CO.	PENNER	THOMAS	L	89-NC-255	W	ULRICH
				89-NC-257		ULRICH
ECODYNAMICS RESEARCH ASSOCIATION INC	ROACHE	PATRICK	J	89-NC-257		CROWLEY
EMORY UNIVERSITY	KALFMAN	MYRON		89-NM-526		BIRKAN
	LIN	M	C	89-NA-303		TISHKOFF
ENGINEERING MACHANIC ASSC INC	HASSELMAN	TIMOTHY		89-NA-311	A	AMOS
FLORIDA ATLANTIC UNIVERSITY	HOFFMAN	FREDERICK		89-NM-611		WAKSMAN
	SU	TSUNG-CHOW		89-NA-250	A	AMOS
FLORIDA STATE UNIVERSITY	PEPPER	RICHARD	L	89-NC-293	A	STOBIE
FOSTER-MILLER INC	ORLY	MARK	A	89-NC-225		ULRICH
GEORGE MASON UNIVERSITY	HOFFMAN	KARLA	L	89-NM-647		GLASSMAN
	TABAK	DANIEL		89-NM-608		WAKSMAN
GEORGIA INSTITUTE OF TECH	ATLURI	SATYA	N	93-NA-340		AMOS
	FERRI	ALDO	S	89-NA-270		AMOS
	PARKER	R.		89-NM-501		GLASSMAN
GEORGIA TECH RESEARCH CORPORATION	WEISS	GIDEON		89-NM-518		BAROUCH
	BERGER	MARC	A	89-NM-589		NACHMAN
	FLANNERY	M.	R	89-NP-156	A	KELLEY
	LLEWELLYN	D.D.	C	89-NM-637		GLASSMAN
	NEPFAUSER	GEORGE		89-NM-546	A	GLASSMAN
	STOCK	STUART	R	89-NE-253		SCHICLER
MAHNEHANN UNIVERSITY	ASTON-JONES	GARY		89-NL-190	A	BERRY
				89-NL-223		BERRY
	CHAPIN	JOHN	K	89-NL-205		BERRY
HAMPTON UNIVERSITY	MIAMEE	A.	G	89-NM-506		NACHMAN
	PRELITT	PAUL	S	89-NM-521		CROWLEY
	RAM	ROGER	B	89-NM-505		GLASSMAN
HARVARD UNIVERSITY	BROCKETT	DAN	W	89-NM-635	A	NACHMAN
HEBREW UNIVERSITY	DAVIDOV			99-NC-249		ULRICH
				89-NC-252	W	ULRICH
HUGHES AIRCRAFT CO	MEIRI	HALINA		89-NL-228		CERVENY
HUGHES RESEARCH LABORATORIES	PEPPER	DAVID	M	89-NP-159		SCHLOSSBER
IIT RESEARCH INSTITUTE	MC FARLANE	RCSS	A	89-NP-205		SCHLOSSBER
	SNELSON	ALAN		89-NC-261		DAVIS
IDAMC UNIVERSITY	GITTERWOLF	THOMAS	E	89-NC-283		DAVIS
	CRAWFORD	RONALD	L	89-NE-221		WITT
				83-NL-265		CERVENY

STATUS - 'A' = ACCEPTED, 'O' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PH NAME
ILLINOIS INSTITUTE OF TECHNOLOGY	SHREEVE	JEAN'NE	M	89-NC-251	A	MATUSZKO	
	MARVASTI	FARUKH	M	89-NM-502		NACHMAN	
	NAGIB	HASSAN	E	89-NA-232	A	MCMICHAEL	
	MARK	CANDACE	S	89-NA-323	C	MCMICHAEL	
INDIANA INSTITUTE OF TECHNOLOGY	SZADKOWSKI	ANDRZEJ	A	89-NL-210		TANGNEY	
INDIANA UNIVERSITY RESEARCH FOUNDATION	WATSON	CHARLES	A	89-NL-236		CERVENY	
INDIANA UNIVERSITY-PURDUE UNIV AT INCFPL	WITZMANN	FRANK	T	89-NM-557		WAKSMAN	
INNOVATIVE RESEARCH INC.	PAZIRANDEH	MOHSEN	B	89-NP-185		SCHLOSSBER	
INST. OF ELECTRICAL & ELECTRONICS ENGRG	WANGEMANN	ROBERT	B	89-NM-545		BAROUCH	
INSTITUTE OF ELECTRL & ELECTRNC ENG INC	MILSTEIN	LAURENCE	U	89-NM-576		BAROUCH	
INSTITUTE OF MATHEMATICAL STATISTICS	BILLARD	LYNNE		89-NM-548		BAROUCH	
	PBABHL	N.		89-NC-246		MODARCZYK	
IOWA STATE UNIV CF SCIENCE AND TECH	NG	CHEUK-YIU		89-NC-291		DAVIS	
	RUEDENBERG	KLAUS		89-NA-320	A	AMOS	
IOWA STATE UNIVERSITY DEPARTMENT OF MATH	BAUMGARTEN	J		89-NM-482		BAROUCH	
	KLIEMANN	WOLFGANG	B	89-NL-255		TANGNEY	
JET PROPULSION LABORATORY	LAWTON	TERI	J	89-NM-606	A	WAKSMAN	
	PINEDA	FERNANDO	G	89-NL-242		FREGLY	
JOHNS HOPKINS UNIVERSITY	MCKNANN	GUY	M	89-NM-497		GLASSMAN	
	MEYER	GERARD	J	89-NM-587		CROWLEY	
	RUGH	WILSON	S	89-NP-200	A	RAOOSKI	
	RLST	DAVID	S	89-NP-182		SCHLOSSBER	
KENT STATE UNIVERSITY	MOROI	RICHARD	S	89-NM-536		NELSON	
	VARGA	DAVID		89-NC-265		DAVIS	
LAWRENCE LIVERMORE LAB (CALIF UNIV)	AKELLA	JAGAN	D	87-NA-248	A	AMOS	
LAWRENCE TECHNOLOGICAL INSTITUTE	GRACE	NABIL	R	89-NM-469	A	NACHMAN	
LEHIGH UNIVERSITY	WALKER	JAMES	M	89-NE-267	A	WITT	
LINCOLN LABORATORY/MIT	CALAWA	ARTHUR	S	89-NL-240	A	TANGNEY	
	WAXMAN	ALLEN		89-NE-308	A	WEINSTOCK	
	WITHERS	RICHARD		89-NM-633	A	NACHMAN	
LOS ALAMOS SCIENTIFIC LAB (CODE)	KACISH	ABRAHAM		89-NA-285		TISHKOFF	
LOUISIANA STATE UNIVERSITY	CHARALAMPPOULAS	TRIFON	M	89-NL-227		CERVENY	
	CLCUD	RINN	I	89-NE-256		SCHIOLER	
	MELETIS	E.	N	89-NM-627		CROWLEY	
LOYOLA UNIVERSITY	BARON	EMMANUEL	D	89-NL-256		FREGLY	
MRC APLIEC PSYCHOLOGY UNIT	BADDELEY	ALAN	C	89-NL-192	A	FREGLY	
	DUNCAN	JCHN		89-NA-302	A	TISHKOFF	
MARQUETTE UNIVERSITY	EHLERT	THOMAS	A	89-NC-285		DAVIS	
MARTIN MARIETTA CORPORATION	VERNEKER	V. R. PAI	G	89-NE-216	A	WITT	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ANTONIAOIS	DIMITRI		89-NP-193	A	GILES	
	ATKESON	CHRISTOPHER	J	89-NM-564		GLASSMAN	
	BEKEFI	GEORGE		89-NC-315		WU	
	BERTSIMAS	DIMITRIS	F	89-NC-224	A	STOBIE	
	BUYUKOZTURK	ORAL		89-XQ-016	A	CAVENDER	
	CHANG	TCM	S	89-NC-260		ULRICH	
	DRFSSELHALS	GENE					
	ORELA	MARK					
	DRESSSELHALS	MILDRED					

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
		DURLACH	NATHANIEL	I	89-NL-283		TAMONEY
		EPSTEIN	ALAN	H	89-NA-273		HELIN
		GREITZER	E	M	89-NA-299	A	HELIN
			EDWARD	M	89-NA-330	A	GILES
		JORDAN	MICHAEL	I	89-NE-293		BERRY
		LIEBERMAN	HARRIS	R	89-NL-263		LITTON
		SACOWA	DONALD	R	89-NE-249	A	MATUSZKO
		SEVFERTH	OIETMAR		89-NC-301	A	CAVENDER
		TECROW	PAUL	M	89-XO-013	A	ULRICH
		THOMAS	EDWIN	L	89-NC-253		CROWLEY
MATERIALS RESEARCH SOCIETY		WILLSKY,	ALAN	S	89-NM-565	A	WITT
		GALLANCE	JOHN	B	89-NE-289	A	SCHIDLER
		BALLANCE	JOHN	B	89-NE-276	A	ULRICH
		KARASZ	FRANK	E	89-NC-268	A	WAKSMAN
		LARK	JAY	S	89-NM-621	A	ROSENSTEIN
		SASTRY	S. M. L.		89-NE-218	A	MCMICHAEL
		WLEZIEN	RICHARD	M	* 89-NA-322		CERVENY
		DENISON	MICHAEL	S	89-NL-269		CMICHAEL
		FALCO	ROBERT		89-NA-263		CROWLEY
		KOCCHESFANI	MANDUCHEHE	R	89-NA-318	A	GLASSMAN
MICHIGAN STATE UNIVERSITY		MACCLUER	CHARLES		89-NM-554		SAKELL
		SWYER	WILLIAM	N	89-NM-492		LITTON
		SONI	B	K	89-NA-274		CERVENY
		FORD	WAYNE	K	89-NE-251		BAROUCH
		G.M. VAN KUIJK	FREDERIK	J	89-NL-267		HELIN
		LAPEYRE	GERALD	J	89-NE-246		A BURGGRAF
		YOO	YEAR	B	89-NM-563		CAVENDER
		CARR	LARRY		89-NA-306	A	NELSON
		OUTLAW	R	A	89-NC-264		SMITH
		MANKA	ROBERT		89-XO-023	A	ROBISON
NASA - AMES RESEARCH CENTER		COX	LARRY	S	89-NM-598		ULRICH
		LONG	ROBERT		89-NP-198	A	DAVIS
		MILES	VERNON		89-NP-158		KELLEY
		ZHILSKY	KLAUS	M	89-XO-021	A	KELLEY
		CASASSA	MICHAEL	P	89-NC-306		STOBIE
		McCLELLAND	JABEZ	J	89-NC-281		HELIN
		WINELAND	D. J.		89-NP-206		BARKER
		HECHT	ALAN	D	89-NC-290	A	BARKER
		LIGRANI	PHILLIP	M	89-NA-264		ROBISON
		REWLAND	HARVEY	L	89-NP-179	A	BERRY
NATIONAL BUREAU OF STANDARDS		STACKPOLE	LAURIE		89-NP-197	A	BERRY
		HRUSHESKY	WILLIAM	J	89-XO-020	A	BERRY
		KALSNER	STANLEY		89-NL-280		BERRY
		KCNIG	JAMES	I	89-NL-282		BERRY
		LEEMAN	SUSAN	E	89-NL-279		BERRY
		CULLEN	EDWARD	I	89-NL-281		BERRY
		SABBAN	ESTHER	L	89-NL-215		BERRY
NATIONAL INST. OF STANDARDS & TECHNOLOGY							
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN							
NAVAL POST GRADUATE SCHOOL							
NAVAL RESEARCH LABORATORY							
NEW YORK ACADEMY OF SCIENCES							
NEW YORK MEDICAL COLLEGE							

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INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
NEW YORK STATE COLLEGE OF CERAMICS NEW YORK UNIVERSITY	SPRIGGS	RICHARD	M	89-NE-281	A	SCHIOLER
	KALPHAN	LLOYD		89-NL-222		FRGLY
	KCPN	RCBERT	V	89-AM-490		NACHMAN
	MALLAT	STEPHANE		39-NM-613	A	BAROUCH
NIELSEN ENGINEERING AND RESEARCH CO NORTH CAROLINA STATE UNIVERSITY	TING	LU		89-AM-494	A	NACHMAN
	NIXON	DAVID		89-NA-216		MCMICHAEL
	ELMAGHRABY	SALAH	E	89-AM-575		GLASSMAN
	KHEVFETS	ARKADY		89-XO-017	A	CAVENDER
NORTH DAKOTA STATE UNIVERSITY NORTHEASTERN UNIVERSITY NORTHWESTERN UNIVERSITY	LIN	YUH-LANG	C	39-AC-302		STOBIE
	MULLIGAN	JAMES	A	89-NA-319		HELIN
	RUGGLES	GARY		89-NE-291		LITTON
	YAZDANI	FRANK		89-NA-258		WU
CAK RIDGE NATIONAL LAB OFFICE OF NAVAL RESEARCH	KCKAR	MIECZYSLAW	M	89-NM-607		WAKSMAN
	BANKOFF	S	G	89-NA-257		BIRKAN
	RELYTSCHK	TED		89-NA-279		AMOS
	DISTERHOFT	JOHN	F	89-NL-250		BERRY
OHIO STATE UNIVERSITY	KEER	L	M	89-NA-253		HARITGO
	MARKS	LAURENCE	D	89-NC-241		BURGGRAF
	PESHKIN	NUCGAER	A	89-NE-242		GILES
	SHAH	S	P	89-NA-220		WU
CHIO UNIVERSITY	DE LA CRUZ	MONICA OLVERA	M	89-AC-271		ULRICH
	BESMANN	T.		89-NE-219	A	SCHIOLER
	ECKMILLER	ROLF		89-NE-297		GILES
	PACLETTI	CHUCK		89-XO-014	A	ROBISON
CHIO UNIVERSITY	CHANDRASEKARAN	B		89-AM-547	A	WAKSMAN
	HEBERT	THORWALD		89-NA-261		MCMICHAEL
	OZGURER	UNIT		89-NA-324		AMOS
	TAPR	FUSUNT	J	89-NE-243		GILES
GREGON STATE UNIVERSITY OXFORD UNIVERSITY PENNSYLVANIA STATE UNIVERSITY	GRAHAM	MELINDA	M	89-NL-272		CERVENY
	HARMON	GARY	M	89-NA-259	A	HELIN
	KANDIL	JAMES	M	89-NL-243	A	CERVENY
	OLARIU	OSAMA	A	89-NA-221		HELIN
GREGON STATE UNIVERSITY OXFORD UNIVERSITY PENNSYLVANIA STATE UNIVERSITY	CURTIS	STEPHEN		89-NM-507		GLASSMAN
	HARDING	LAWRENCE	R	89-NM-522		GLASSMAN
	AKRITAS	JOHN		89-NL-266		CERVENY
	BABU	MICHAEL	G	89-NA-328		AMOS
GREGON STATE UNIVERSITY OXFORD UNIVERSITY PENNSYLVANIA STATE UNIVERSITY	BRASSEUR	GUTTI	J	89-AM-567		BAROUCH
	OLLIKRAVICH	J	G	89-AM-628		BAROUCH
	LAKSHMINARAYANA	GEORGE	S	89-NA-229		MCMICHAEL
	MITCHELL	B		89-NM-644		GLASSMAN
GREGON STATE UNIVERSITY OXFORD UNIVERSITY PENNSYLVANIA STATE UNIVERSITY	PARDALIS	JOHN	D	39-NA-222		HELIN
	RLLO	PANOS	M	89-AC-234		STOBIE
	SANTAVICCA	C	G	89-AM-524		GLASSMAN
	TRESSLER	DOMENIC		89-NM-508		CROWLEY
GREGON STATE UNIVERSITY OXFORD UNIVERSITY PENNSYLVANIA STATE UNIVERSITY	YARBROUGH	RICHARD	E	89-NA-312	A	TISHKOFF
	YAVUZKURT	WALTER	A	89-NE-228		SCHIOLER
		S		89-AC-275		ULRICH
				89-NA-223		HELIN

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
PHYSICAL DYNAMIC INC	PCNEY	WALTER	N	89-NE-273		WEINSTOCK
PHYSICAL SCIENCES INC	MARINELLI	W	J	89-NC-295		DAVIS
POLYTECHNIC INSTITUTE OF NEW YORK	FELSON	LEOPOLD	B	89-NE-303		WEINSTOCK
POLYTECHNIC UNIVERSITY	KLHAROT	ERICH	E	89-NP-176		SMITH
PRINCETON UNIVERSITY	GLASSMAN	IRVIN	G	89-NA-301	A	TISHKOFF
	HCEBEL	BARTLEY	E	89-NL-220		BERRY
	KARNIADAKIS	GEORGE	E	89-NA-335	A	SAKELL
	KUNG	SUN-YLAN	C	89-NE-273		GILES
	LAK	K	B	89-NA-296		TISHKOFF
	MILES	RICHARD	J	89-NA-291		TISHKOFF
	SMITS	A	J	89-NA-228		MCMICHAEL
PURDUE UNIVERSITY	FLEETER	SANFORD	J	89-NA-316	A	TISHKOFF
QUALCOMM, INC.	VITERBI	ANDREW	J	89-NM-639		NACHMAN
RAYTHEON CO	BERNFELD	MARVIN	D	89-NM-574	A	NACHMAN
RENSSELAER POLYTECHNIC INSTITUTE	CCLE	JULIAN	G	89-NM-531		NACHMAN
	ECKER	JOSEPH	R	89-NM-517		GLASSMAN
	MCLAUGHLIN	JOYCE	T	89-NM-629		CROWLEY
RICE UNIVERSITY	NAGAMATSU	HENRY	R	89-NA-239		SAKELL
ROCKWELL INTERNATIONAL	THOMPSON	JAMES	D	89-NM-524		BAROUCH
	MALMUTH	N.	D	89-NM-577		NACHMAN
	SEDER	T.A.		89-NC-286		WODARCZYK
ROME AIR DEVELOPMENT CENTER	BRIMMAR	RICHARD		89-NM-572	A	NELSON
	TAYLOR	JEAN	E	89-NM-600	A	NELSON
RUTGERS - THE STATE UNIVERSITY	HAMMER	PETER	L	89-NM-597	A	NACHMAN
	VGGELIUS	MICHAEL	S	89-NM-614	A	GLASSMAN
	BARUM	HAIM	D	89-NM-605	A	NACHMAN
RUTGERS - THE STATE UNIVERSITY (ENGR)	KNIGHT	DOYLE	B	89-NA-276	A	AMOS
	PELZ	RICHARD	K	89-NA-308		SAKELL
	BAE	YOUNG		89-NA-337		MCMICHAEL
SRI INTERNATIONAL	BARNARD	STEPHEN		89-NC-282	A	DAVIS
	HUESTIS	D. L.		89-NE-224	A	GILES
	BALM	JOSEPH	L	89-NP-188	A	BARKER
SCIENCE APPLICATIONS INC	GRUBIN	HAROLD		89-NA-257	A	BIRKAN
SCIENTIFIC RESEARCH ASSOCIATES, INC.	MEPRA	RAMAN	G	89-NE-225	A	WITT
SOCIETY FOR OPTICAL/QUANTUM ELECTRONICS	HARRIS	DENNIS	J	89-NA-300	A	AMOS
SOCIETY OF ENVIRON. TOXICOLOGY & CHEM.	WRIGHT	JOHN	R	89-NC-263	C	WODARCZYK
SOUTHEASTERN OKLAHOMA ST U-PHYS SCI CPT	KENNINGTON	JEFFERY	L	89-NL-252	A	CERVENY
SOUTHERN METHUENIST UNIVERSITY	KRUGER	CHARLES	H	89-NL-253	A	CERVENY
STANFORD UNIVERSITY	BCAMMAN	CRAIG	T	89-NM-527	A	GLASSMAN
	MACIX	ROBERTS	J	89-NP-207	A	SMITH
	MANNA	ZOHAR	J	89-NA-292		TISHKOFF
	PIASKY	PETER	M	89-NC-223	A	BURGGRAN
	QUATE	CALVIN	F	89-NM-642		WAKSMAN
	REYNOLDS	W	C	89-NA-254		HARITOS
	SPCHAM	YOAV	E	89-NE-298		LITTON
	SNCH	RICHARD		89-NA-236	A	SAKELL
				89-NM-620	A	WAKSMAN
				89-NL-247	A	TANGNEY

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STATE UNIVERSITY OF NEW YORK	MILES	RONALD		89-NA-334		AMOS
	PRASAD	PARAS		89-NC-287	A	DAVIS
STETSON UNIVERSITY	LAWSON	DAVID		89-NE-292	C	GILES
STEVENS INSTITUTE OF TECHNOLOGY	BLCOM	STEVEN	L	89-NM-537		WAKSMAN
	NICHOLSON	DAVID	W	89-NM-616		NACHMAN
	SEIDL	MILOS		89-NP-183	A	KELLEY
	SHEPPARD	KEITH	G	89-NE-250		LITTON
SWATHMORE COLLEGE	KELLMAN	PHILIP	J	89-NL-244		TANGNEY
TECHNION RSCH & DEVELOPMENT FOUNDATION	CCPEN	JACOB		89-NA-260		MCMICHAEL
TELDES RESEARCH	ROSENSCHNEIN	STANLEY	J	89-NM-622	A	WAKSMAN
TEMPLE UNIVERSITY SCHOOL OF MEDICINE	BISWAS	SAROJ	K	89-NM-523		CROWLEY
	SACEGHIPOUR	K		89-NA-272		AMOS
	SEADALLA	H.		89-NM-530		CROWLEY
TEXAS A AND M RESEARCH FOUNDATION	ALLEN	DAVID	H	89-NA-214		AMOS
	CPEN	K	W	89-AP-163	A	BARKER
	SCHOBELIRI	T	M	89-NA-208		HELIN
TEXAS A AND M UNIVERSITY	CARROLL	R.	J	89-NM-562		BAROUCH
	OCPOA	DZDEN		89-NA-278		AMOS
	SCHAPERY	R	A	89-NA-336	A	HARITOS
	VANCE	JCHN		89-NA-317	A	AMOS
TEXAS ENGINEERING EXPERIMENT CENTER	HUANG	GARG		89-NM-511		NELSON
	KEPTARNAVAZ	N.		89-NM-516		WAKSMAN
	EMRE	EROL		89-NM-645		CROWLEY
TEXAS TECH UNIVERSITY	LAW	VICTOR	J	89-NM-552		GLASSMAN
TULANE UNIVERSITY	MAJTENYI	STEVEN		89-NA-293		BOYCE
LTD INC.	COMERER	HAROLD	A	89-NA-342	A	BOYCE
UNITED ENGINEERING TRUSTEES INC	HALSEY	JAMES	H	89-NL-195		CERVENY
UNIV OF ALABAMA	LAMARTINIERE	CORAL	A	89-AL-273		CERVENY
	WANSURIFUR	MASUD		89-NP-173		SCHLOSSER
UNIV OF ARIZONA	BASHKIN	STANLEY		89-NP-157		KELLEY
	BERNATH	PETER		89-NC-273		DAVIS
	DERENIAK	EUSTACE	L	89-NE-238		WEINSTOCK
	FALCO	CHARLES	M	89-NP-175		SCHLOSSER
	FARIS	WILLIAM	G	89-NM-610		WAKSMAN
	KERSCHEN	EDWARD	J	89-NA-313	A	MCMICHAEL
	MACLEOD	H. ANGUS		89-NE-248		SCHLOSSER
	PEYGHAMBARIAN	N.		89-NE-259		GILES
	SARID	DROR		89-NP-189	A	SCHLOSSER
	SCHACTER	DANIEL	L	89-NL-221		FREGLY
	SCCTT	ALWYN	C	89-NM-573	A	NACHMAN
UNIV OF CALIFORNIA	WEINBERGER	MICHAEL	C	89-NM-604		NACHMAN
	BARLOW	R	E	89-NM-615		BAROUCH
	AFKARIAN	V.	A	89-NC-253		DAVIS
	ATTWOOD, JR.	DAVID	T	89-NP-172		SCHLOSSER
	BAYES	KYLE	D	89-NA-287		TISHKOFF
	RAYLIS	GROON	C	89-NL-238	C	TANGNEY
	BAYO	ECUARCO		89-NA-209		AMOS
	BEATTY	JACKSON		83-NL-203		BERRY

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UNIV OF CALIFORNIA, SAN DIEGO	RENDIKSEN	OCUVAR		89-NA-304		AMOS
	BULLOCK	THEODORE		89-NL-241	A	FREGLY
	CAFLISCH	RUSSEL		89-NM-579	A	NACHMAN
	CHANG	T.	S	89-NM-582	C	GLASSMAN
	GRUNBAUM	F ALBERTO		89-NM-591	A	NACHMAN
	HSIA	T.C.		89-NE-307		GILES
	JAPMALAMACAKA	S.	R	89-NM-559		BAROUCH
	KWEL	STEPHEN	T	89-NE-286		GILES
	LILIENTAL-WEBER	ZUZANNA		89-NE-298		WITT
	LECKIE	F	A	89-NA-247		HARITOS
	LIN	ANTHONY	T	89-AP-202	A	BARKER
	LUPMANN, JR.	NEVILLE	C	89-AP-209	A	BARKER
	MARADUDIN	ALEXEI	A	89-NP-191	D	SCHLOSSBER
	OLSSON	RONALD	A	89-NM-538		WAKSMAN
	POLAK	ELIJAH		89-NM-543	A	CROWLEY
	ROBERTS	SETH	A	89-NL-276		BERRY
	SIGVART	KAREN	A	89-NL-200		BERRY
	SIRIGNANO	WILLIAM	A	89-NA-290		TISHKOFF
	WILHELMS	JANE		89-NM-602		NELSON
				89-AM-603	C	NELSON
	BERMAN	FRANCINE		89-AM-568		WAKSMAN
	ELVAN	JEFFREY	L	89-NL-213	C	FREGLY
	ESENER	SADIK		89-NE-272		GILES
		S.		89-NE-300	A	GILES
	GALTIER	CATHERINE		89-NC-244		STOBIE
	KUTAS	MARYA		89-NL-261		FREGLY
	LAWRENCE	DALE	A	89-NM-550		CROWLEY
	MARK	J	E	89-NC-223		ULRICH
				89-NC-232		ULRICH
				89-NA-294		SAKELL
				89-NP-162		KELLEY
				89-NL-249		FREGLY
				89-AM-491	A	NACHMAN
				89-NA-332		AMOS
				89-NP-180	D	SCHLOSSBER
				89-NL-237	D	TANGNEY
				89-NC-296		STOBIE
				89-NL-211	D	FREGLY
				89-NA-213		BIRKAN
				89-NA-298		TISHKOFF
				89-NE-287		GILES
				89-NA-241		WU
				89-NM-534	A	NELSON
				89-AM-496	B	GLASSMAN
				89-NC-230	S	ULRICH
				89-AM-483	A	BAROUCH
				89-NL-257		FREGLY
				89-NM-503		BAROUCH
UNIV OF CINCINNATI	BERMAN	FRANCINE		89-AM-568		WAKSMAN
	ELVAN	JEFFREY	L	89-NL-213	C	FREGLY
	ESENER	SADIK		89-NE-272		GILES
		S.		89-NE-300	A	GILES
	GALTIER	CATHERINE		89-NC-244		STOBIE
	KUTAS	MARYA		89-NL-261		FREGLY
	LAWRENCE	DALE	A	89-NM-550		CROWLEY
	MARK	J	E	89-NC-223		ULRICH
				89-NC-232		ULRICH
				89-NA-294		SAKELL
UNIV OF COLORADO	RLBIN	STANLEY	G	89-NA-294		SAKELL
	RUSSELL	JAMES	E	89-NP-162		KELLEY
	SWANSON	H	L	89-NL-249		FREGLY
	ABLOWITZ	MARK	J	89-AM-491	A	NACHMAN
	BALAS	MARK	J	89-NA-332		AMOS
	BARUT	A.	D	89-NP-180	D	SCHLOSSBER
	BELL	ALAN		89-NL-237	D	TANGNEY
	FLUMEN	WILLIAM		89-NC-296		STOBIE
	BRADSHAW	GARY		89-NL-211	D	FREGLY
	BRANCH	MELVYN	C	89-NA-213		BIRKAN
UNIV OF CONNECTICUT	KASSOY	DAVID		89-NA-298		TISHKOFF
	KIRKPATRICK	SCOTT		89-NE-287		GILES
	KO	HON-YIM		89-NA-241		WU
	MCERYAN	OLIVER	A	89-NM-534	A	NELSON
	SCNABEL	ROBERT	B	89-AM-496		GLASSMAN
	BRADLEY	MICHAEL	S	89-NC-230		ULRICH
	MACYCH	W.	R	89-AM-483	A	BAROUCH
	TURVEY	MICHAEL	T	89-NL-257		FREGLY
	EELING	CHARLES	E	89-NM-503		BAROUCH

UNIV OF CONNECTICUT

UNIV OF DAYTON

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME	
UNIV OF DELAWARE	BRILL		THOMAS	B	89-NC-266		DAVIS	
	GRANT		STEVEN	J	89-NL-216		BERRY	
	APPE		ROBERT	C	89-NC-237		BURGGRAF	
	CHAMBERS		R	D	89-NC-223	A	MATUSZKO	
	BEMICK		THOMAS	A	89-NL-230		CERVENY	
	BURNS		MICHAEL	F	83-NC-242		BURGGRAF	
	CARROLL		BRUCE	G	89-NA-224		HELIN	
	CHAUDRY		RUSUL		89-NL-234		CERVENY	
	HAEJELA		PRABHAT		89-NA-307		AMOS	
	HATFIELD		KIRK		89-NL-229		CERVENY	
	HSU		CHEN-CHI		89-NA-234		SAKELL	
	KALMAN		R.E.		89-AM-487	C	CROWLEY	
	LECNARD		CHRISTIANA	M	89-NL-212		FREGLY	
	MALVERN		LAWRENCE	E	89-NA-339		WU	
UNIV OF DENVER	MIKOLAITIS		DAVID	W	89-NA-297		TISHKOFF	
	PRINCIPE		JOSE	C	89-NL-217		BERRY	
	ROME		JACK	E	89-NE-268	A	LITTON	
	STREET		J	J	89-NL-235		CERVENY	
	THOMSON		EWEN	M	89-NC-247		STOBIE	
	VEPURI		BABA	C	89-NM-514		WAKSMAN	
	VU-QUCC		PROFESSOR LOC		89-NA-255		AMOS	
	WHITE		KEITH	D	89-NL-262		TANGNEY	
	DUNCAN		MICHAEL	A	89-NC-274		DAVIS	
	KING		ROBERT	B	89-NC-278		MATUSZKO	
	LAONTE		BARRY	J	89-NP-169		RADOSKI	
	ANDERSEN		GEORGE	J	89-NL-246		TANGNEY	
	BASAR		T.		89-NM-553		CROWLEY	
	UNIV OF GEORGIA	CHUDNOVSKY		A		89-NA-245		HARITOS
CYRENKO			GEORGE		89-NM-618	A	NACHMAN	
ECRELL			THOMAS	E	89-NL-274		CERVENY	
GILLETTE			MARTHA	U	89-NL-218		BERRY	
KRIVEN			WALTRAUD	M	89-NE-254		SCHIOLER	
KUCK			DAVID		89-NM-513		NACHMAN	
LAWRENCE, JR			FREDERICK	V	89-NA-329		WU	
MIESCKE			KLAUS	J	89-NM-484		BAROUCH	
RACDES			CHARLES	K	89-NP-184		SCHLOSSER	
WU			CHIEN	H	89-NA-310	A	HARITOS	
YOUNG			J F		89-NA-242		WU	
FCIAS			CIPRIAN		89-NM-581		NELSON	
ALLEN			SUSAN	D	89-NE-269		LITTON	
TZCU			HORN		89-NA-268		AMOS	
UNIV OF INDIANA	CHEN		H.		89-NM-617	A	NACHMAN	
	KRISHNAPRASAD		P.	S	89-NM-523		CROWLEY	
	PEANER		MERRILYNN	J	89-NL-248		BERRY	
	EMURIAN		HENRY	H	89-NM-520		WAKSMAN	
	SEIDMAN		THOMAS	I	89-NM-630		CROWLEY	
	BARTO		ANDREW	G	89-NE-220	A	GILES	
	CCFEN		PAUL	R	89-NM-583	A	WAKSMAN	
	UNIV OF ILLINOIS							
	UNIV OF HAWAII							
UNIV OF MASSACHUSETTS								

UNIV OF MARYLAND BALTIMORE COUNTY

UNIV OF MARYLAND BALTIMORE COUNTY

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF MICHIGAN	FREYMAN		RICHARD		89-NM-619	A	WAKSMAN
	LALU		KEI MAY		89-NL-239		TANGNEY
	NASH		WILLIAM		89-NE-234		WITT
	BRERETON		GILES	J	89-NA-280		AMOS
	CHEN		I-WEI		89-NA-233		SAKELL
	GIRALA		RONALD		89-NE-252		SCHIOLE
	GILGENBACH		RONALD		89-NE-245		ROSENSTEIN
	LAFORTUNE		STEPHANE		89-NP-181	A	BARKER
	MAZUMDER		PINAKI		89-NM-590		CROWLEY
	MORROW		THOMAS	J	89-NE-223		GILES
UNIV OF MINNESOTA	MCLROU		GERARD	A	89-NL-204		BERRY
	STEEL		DUNCAN	G	89-NE-258		WITT
	TENEKETZIS		D. DEMOSTHENIS		89-NP-195		SCHLOSSBER
	WAAS		A		89-NM-485		CROWLEY
	WINFUL		HERBERT	G	89-NM-636		CROWLEY
	BIEDERMAN		IRVING		89-NA-309		HARITOS
	TENFIK		A.		89-NP-196		SCHLOSSBER
	WEINBERGER		HANS	H	89-NL-209		TANGNEY
	BASSI		CARL	J	89-NM-561		BAROUCH
	CHANDRASEKHAR		MEERA		89-NM-566		NACHMAN
UNIV OF MISSOURI	KRISHNAPURAM		RAGHU		89-NL-208	D	TANGNEY
	LEE		SHEN	C	89-NE-225		WITT
	RESCH		GARTH	E	89-NM-641	A	WAKSMAN
	DCUGLASS		ROD		89-NA-237		SAKELL
	ALEXANDER		DENNIS	W	89-NL-201		BERRY
	DECGUN		JITENDRA	R	89-NM-201		NACHMAN
	DILLON		RODNEY	S	89-NM-510		SCHLOSSBER
	VAKILZADIAN		HAHID	O	89-NP-165		NELSON
	BERNOT		WILLIAM		89-NM-480		SCHIGLER
	SHIN		HYUNG	K	89-NE-257		WAKSMAN
UNIV OF NEBRASKA MEDICAL CENTER	TELFORD		JAMES		89-NM-549		CERVENY
	CHUPP		EDWARD	L	89-NL-275	C	DAVIS
	SCHREYER		HOWARD		89-NC-307		STOBIE
	FISHMAN		GEORGE	S	89-NC-227		RAOOSKI
	GOLDEN		DAVID	E	89-NP-208		DAVIS
	GRCS		GUENTER	W	89-NP-177	A	BARKER
	ROBERTS		JAMES	A	89-NP-194		WU
	GOLLAPALLI		S	R	89-NA-244		GLASSMAN
	NICHOLAS		KENNETH	N	89-NM-593		KELLEY
	TLAN		TAI-CHING		89-NP-192		BERRY
UNIV OF OKLAHOMA	ENGELKING		PAUL	C	89-NL-202		KELLEY
	HARDWICK		JOHN	L	89-NA-288		TISHKOFF
	BLNEMAN		PETER		89-NM-519		ULRICH
	DAILEY, III		WILLIAM	P	89-NC-292		GLASSMAN
	FARHAT		NEBIL	H	89-NA-284		DAVIS
					89-NM-528		TISHKOFF
					89-NC-294		WAKSMAN
					89-NE-241		DAVIS
							GILES

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PH NAME
UNIV OF PITTSBURGH		MARCUS	MITCH		89-NM-556	A	WAKSMAN
		MELE	EUGENE	J	89-NE-283	D	WEINSTOCK
		UNGAR	LYLE	H	89-NE-232		GILES
		VENKATESH	SANTOSH	S	89-NE-266	A	GILES
		YDCH	ARJUN		89-NP-201		SCHLOSSBER
		H. CHUANG	HENRY	Y	89-NM-612		WAKSMAN
		KOZIKOWSKI	ALAN	P	89-NL-251		BERRY
		HAZUMCAR	MAINAK		89-NM-595		BAROUCH
		ANCERS	M	W	89-NL-226		CERVENY
		YAAKOBI	BARUKH		89-NP-167		SCHLOSSBER
UNIV OF ROCHESTER		DEVORE	RONALD	A	89-NM-462	A	NACHMAN
		OGMARADZKI	J	A	89-NA-338		MCMICHAEL
UNIV OF SOUTH CAROLINA		ERWIN	DANIEL	A	89-NA-238		SAKELL
		JENKINS	B. KEITH		89-NE-299	A	GILES
UNIV OF SOUTHERN CALIFORNIA		NEVATIA	R		89-NM-570	A	WAKSMAN
		REED	IRVING	S	89-NM-539		WAKSMAN
					89-NM-592		WAKSMAN
		STEIER	WILLIAM	H	89-NE-240		GILES
		HWANG	KAI		89-NM-481		WAKSMAN
		RAGHAVENDRA	C.	S	89-NM-509		WAKSMAN
		DRUM	ERIC	C	89-NA-341		WU
		KARAKASHIAN	OMANNES		89-NM-544		NELSON
		BENNIGHOF	JEFFREY		89-NA-281		AMOS
					89-NA-333		AMOS
UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)		CHOU	YOUN-MIN		89-NM-586		BAROUCH
		FARRAR	ROGER	P	89-NL-233		CERVENY
		HUYNH	OUNG	T	89-NM-584	D	GLASSMAN
		ITCH	TATSUO		89-NE-222		WITT
		NASH	PATRICIA	L	89-NL-214		BERRY
		PANTON	RONALD	L	89-NA-262		MCMICHAEL
		ROEBINS	STEVEN		89-NM-541		WAKSMAN
		TIEN	JOHN	K	89-NE-282	A	ROSENSTEIN
		WISSLER	EUGENE	H	89-NL-198	A	BERRY
		WCCDWARD	DONALD	J	89-NL-206		BERRY
UNIV OF UTAH		SCHLESINGER	MARK	E	89-NE-290		ROSENSTEIN
		WIGHT	CHARLES	A	89-NC-280		DAVIS
UNIV OF VIRGINIA		GALLAGHER	THOMAS	F	89-NP-203		KELLEY
		KAZAKOS	DEMETRIOS		89-NM-486		BAROUCH
UNIV OF WASHINGTON		LASIECKA	IRENA	C	89-NM-476	A	NACHMAN
		MCCANIEL	JAMES		89-NA-256		TISHKOFF
		THCRNTON	STEPHEN	T	89-NP-204		KELLEY
		THUAN	TRINH	X	89-NP-164	A	RADOSKI
		BAKER	MARCIA	B	89-NC-259		STOBIE
		POCKER	YESHAYAU		89-NC-240		WILKES
		SARIKAYA	MEHMET		89-NC-272	A	MATUSZKO
		WATTS	ROBERT	D	89-NC-231		BURGGRAF
		BALLANCE	JOHN	B	89-NE-227	A	SCHIOLE
		MITCHELL	J.	A	89-NP-193		KELLEY

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF WISCONSIN	GAINES	DONALD		F	89-NC-269		CAVIS
	LIN	CHUN		C	89-NP-187		KELLEY
	PLESNA	MICHAEL	E		89-NA-321		WU
UNIV OF WYOMING	SLEMROO	MARSHALL		S	89-NM-495	A	NACHMAN
	PETERSEN	NANCY			89-NL-268		CERVENY
	DARAH	ROD	C		89-XO-024	A	CAVENDER
UNIVERSAL ENERGY SYSTEMS INC	DARAH	RODNEY		C	89-XO-015	A	CAVENDER
	CHIPMAN	RUSSELL	A		89-NE-260	A	GILES
	BUPIUS	JOHN	A		89-NL-232	A	CERVENY
UNIVERSITY OF ALABAMA	SCUPUNK	ROBERT	W		89-NC-236	A	STOBIE
	BRIGGS	ROBERT	C		89-NL-270		CERVENY
	LUKEHART	CHARLES	M		89-NC-303		ULRICH
VIRGINIA POLYTECHNIC INST & STATE UNIV	TOLK	NORMAN	H		89-NC-238		BURGGRAB
	GUZBURGER	MAX	D		89-NM-632		NELSON
	MCCRATH	JAMES	E		89-NC-289		ULRICH
WAKE FOREST UNIVERSITY	MOCK	D	T		89-NA-331	A	HELIN
	MYERS	R.	H		89-NM-643		BAROUCH
	REIFSNIDER	K	L		89-NA-266		HARITOS
WASHINGTON UNIVERSITY	DEADWYLER	SAM	A		89-NL-199		BERRY
	BYRNES	CHRISTOPHER	I		89-NM-525		CROWLEY
	IBRAHIM	ROUF			89-NA-283		AMOS
WAYNE STATE UNIVERSITY	SMITH	DENNIS	P		89-NL-271		CERVENY
	WALSH	ROBERT	D		89-NA-286		TISHKOFF
	BRANDT	ACHI			89-NM-596		NELSON
WEIZMANN INSTITUTE OF SCIENCE	WOJCIK	ZBIGNIEW	M		89-NM-533		WAKSMAN
	NASRABADI	WASSER			89-NM-631		WAKSMAN
	SAGE	JOSEPH	D		89-NA-314		WU
WRIGHT STATE UNIVERSITY	EPERS	WILLIAM	C		89-NE-261		LITTON
	KUBER	RICHARD	J		89-NL-245	A	FREGLY
	MCULAY	ALASTAIR	R		89-NE-233	A	GILES
YALE UNIVERSITY	COTPMAN	R.			89-NM-558		BAROUCH
	NARENDRA	K. S.			89-NE-295		GILES
	NEPORAI	ARVE			89-NM-560		BAROUCH
YALE UNIVERSITY SCHOOL OF MEDICINE	PERLIS	ALAN			89-NE-270	A	GILES
	PFEFFERLE	LISA	D		89-NA-282		TISHKOFF
	SOFIA	SABATINO	R		89-AP-171		RADOOSKI
YALE UNIVERSITY SCHOOL OF MEDICINE	SREENIVASAN	K	R		89-NA-230		MCMICHAEL
	GINDI	GENE	R		89-NE-302		GILES

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TITLE
TITLE (CONT.)
INSTITUTION

(90 URI) INVERSE DYNAMIC APPROACH AND DISTRIBUTED PIEZOELECTRIC
ACTUATORS FOR THE OPTIMAL CONTROL OF LARGE SPACE STRUCTURES
UNIV OF CALIFORNIA

INVESTIGATOR

EDUARDO

HIGH-FIDELITY DYNAMIC-PERFORMANCE SIMULATION OF SPACE STRUCTURES

CONTROL RESEARCH CORP

LIN

JIGUAN

MODELLING OF THERMOMECHANICAL RESPONSE OF INELASTIC STRUCTURAL
MATERIALS TO HIGH ENERGY THERMAL INPUTS
TEXAS A AND M RESEARCH FOUNDATION

ALLEN

DAVID

CONTACT DEFORMATION AND SPALLING EFFECT OF CLE TO LOW AND MEDIUM
VELOCITY IMPACT ON COMPOSITE STRUCTURES
LAWRENCE TECHNOLOGICAL INSTITUTE

GRACE

NABIL

NONLINEAR SLOSHING AND THE COUPLED DYNAMICS OF LIQUID PROPELLANTS
AND SPACECRAFT
FLORIDA ATLANTIC UNIVERSITY

SU

TSUNG-CHOW

(90 URI) DYNAMICS AND STABILITY OF MULTI-FLEXIBLE/RIGID-BODY
SYSTEMS USING GEOMETRICALLY EXACT THEORIES
UNIV OF FLORIDA

VU-QUOC

OR LOC

(90 URI) INTEGRATED DISTRIBUTED SENSING AND ACTIVE VIBRATION
SUPPRESSION OF SHELLS USING PIEZOELECTRIC ELEMENTS
UNIV OF KENTUCKY

TZOU

HORN

(90 URI) CONTROL AND SIMULATION OF WAVE PROPAGATION IN LARGE SPACE
STRUCTURES
BOSTON UNIVERSITY

NAGEM

RAYMOND

(90 URI) ACTIVE DAMPING AUGMENTATION OF LARGE SPACE STRUCTURES

GEORGIA INSTITUTE OF TECH

FERRI

ALOO

TYPE/MONTHS
RECEIVED
AMOUNT

N 12
06/04/89
\$74,511

N 36
06/04/89
\$495,956

R 36
06/04/89
\$429,221

N 24
25/04/89
\$117,370

N 24
25/04/89
\$79,928

N 36
26/04/89
\$192,706

N 36
03/05/89
\$885,543

N 36
03/05/89
\$216,981

N 36
03/05/89
\$336,034

STATUS
PROGRAM MANAGER
PROPOSAL #

AMOS
89-NA-209

AMOS
89-NA-212

AMOS
89-NA-214

AMOS
89-NA-248

AMOS
89-NA-250

AMOS
89-NA-255

AMOS
89-NA-268

AMOS
89-NA-269

AMOS
89-NA-270

INITIATE
START DATE
TOT AMT

\$39,964
01/08/89
\$79,928

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) NONLINEAR DYNAMICS OF DEPLOYABLE AND MANEUVERABLE SPACE STRUCTURES CORNELL UNIVERSITY	MOON FRANCIS	N 36 03/05/89 \$2,025,868	AMOS 89-NA-271	
(90 URI) SHEAR PANEL BUCKLING STRENGTH OF COMPOSITES: EFFECTS OF CUT-OUTS AND LOCAL DELAMINATION TEMPLE UNIVERSITY SCHOOL OF MEDICINE	SADGEMPCUR K	N 24 03/05/89 \$103,663	AMOS 89-NA-272	
(90 URI) QUALITATIVE AND QUANTITATIVE INVESTIGATION OF THE PERFORMANCE AND EFFICIENCY OF STRUCTURAL CONTROL SYSTEMS RUTGERS - THE STATE UNIVERSITY (ENGR)	BARUP HAIM	N 36 06/05/89 \$211,377	AMOS 89-NA-276	
(90 URI) EXPERIMENTS IN STRUCTURAL DYNAMICS AND CONTROL ATLANTA UNIVERSITY	ROTA KWABENA	N 36 06/05/89 \$587,408	AMOS 89-NA-277	
(90 URI) PERFORMANCE OF CYLINDRICAL GRAPHITE EPOXY TUBES DUE TO IMPACT LOAD TEXAS A AND M UNIVERSITY	CCHOA CZDEN	N 24 06/05/89 \$167,656	AMOS 89-NA-278	
(90 URI) COMPUTATIONAL METHODS FOR HIGH GRADIENT PROBLEMS IN MATERIAL FAILURE PROCESSES NORTHWESTERN UNIVERSITY	BELYTSCHKO TED	N 36 06/05/89 \$752,235	AMOS 89-NA-279	
(90 URI) FLUID-STRUCTURES INTERACTION PHENOMENA UNIV OF MASSACHUSETTS	NASH WILLIAM	N 36 06/05/89 \$309,276	AMOS 89-NA-280	
(90 URI) MINIMUM THE MANEUVER OF FLEXIBLE SPACECRAFT CASED ON PULSE RESPONSE MEASUREMENTS UNIV OF TEXAS	BENNIGHOF JEFFREY	N 36 06/05/89 \$225,256	AMOS 89-NA-281	
(90 URI) DYNAMIC STABILITY AND RESPONSE OF ANISOTROPIC STRUCTURES UNDER AERODYNAMIC HEATING WAYNE STATE UNIVERSITY	IBRAHIM ROUF	N 36 06/05/89 \$278,730	AMOS 89-NA-283	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SOI-SBIR) ADAPTIVE CONTROL OF FLEXIBLE LARGE SPACE STRUCTURES FOR ACCURATE POINTING AND TRACKING SCIENTIFIC SYSTEMS INC.	MEHRA	N 06 16/05/89 \$55,956	A AMOS 89-NA-300	\$59,956 01/10/89 \$59,956
COMPUTATIONAL STUDIES IN TRANSONIC AEROELASTICITY	BENDIKSEN	N 36 16/05/89 \$395,327	AMOS 89-NA-304	
UNIV OF CALIFORNIA				
HEURISTIC METHODS FOR TOPOLOGICAL SYNTHESIS OF STRUCTURAL SYSTEMS	HAJELA	N 36 17/05/89 \$308,181	AMOS 89-NA-307	
UNIV OF FLORIDA				
WORKSHOP ON MICROGRAVITY SIMULATION IN GROUND VALIDATION TESTING OF LARGE SPACE STRUCTURES ENGINEERING PACHANIC ASSC INC	PASSELMAN	N 12 23/05/89 \$45,179	A AMOS 89-NA-311	\$10,000 01/09/89 \$45,179
(AFRAPT) RESEARCH FOR ADVANCED AIRCRAFT ENGINE STRUCTURES AT TEXAS ACM UNIVERSITY TEXAS A AND M UNIVERSITY	VANCE	R 12 25/05/89 \$150,651	A AMOS 89-NA-317	\$150,651 01/09/89 \$150,651
PROVIDE COMPUTING SUPPORT ON AFWL CRAY SUPER COMPUTER TO AFOSR	BAUMGARTEN	N 02 02/06/89 \$10,000	A AMOS 89-NA-320	\$10,000 01/07/89 \$10,000
IOWA STATE UNIVERSITY DEPARTMENT OF MATH				
(90-LRI) EXPERIMENTAL STUDIES IN CONTROL-STRUCTURES INTERACTION	CIGUNER	N 36 06/06/89 \$734,870	AMOS 89-NA-324	
CHIO STATE UNIVERSITY				
NONLINEAR DYNAMICS AND CONTROL OF DEPLOYABLE AND MANEUVERABLE STRUCTURES CORNELL UNIVERSITY	MOON	N 24 06/06/89 \$9,000	AMOS 89-NA-327	
EXPERIMENTAL AND THEORETICAL STUDIES OF THE MECHANICS OF LOAD TRANSFER ACROSS INTERFACES IN LAYERED MATERIALS UNDER IMPACT OXFORD UNIVERSITY	HARDING	N 36 06/06/89 \$265,480	AMOS 89-NA-328	
	JOHN			

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LOW-ORDER CONTROL OF LINEAR AND NON-LINEAR VIBRATIONS IN LARGE SPACE STRUCTURES UNIV OF COLORADO	BALAS	N 36 07/06/89 \$316,744	AMOS 89-NA-332	
DIRECT USE OF PULSE RESPONSE MEASUREMENTS FOR MINIMUM TIME MANEUVER OF FLEXIBLE SPACECRAFT UNIV OF TEXAS	JEFFREY BENNIGHOF	N 36 07/06/89 \$225,256	AMOS 89-NA-333	
SPECTRAL RESPONSE OF NONLINEAR SYSTEMS WITH RANDOM EXCITATION STATE UNIVERSITY OF NEW YORK	RONALD MILES	N 36 07/06/89 \$219,198	AMOS 89-NA-334	
STUDIES ON CONTROL, NONLINEAR DYNAMICS AND MODELING PROBLEMS IN LARGE-SPACE-STRUCTURES GEORGIA INSTITUTE OF TECH	SATYA ATLURI	N 36 23/06/89 \$295,960	AMOS 89-NA-340	
FLAME CHEMISTRY OF SOLID PROPELLANT COMBUSTION UNIV OF COLORADO	MELVIN BRANCH	R 24 06/04/89 \$194,414	BIRKAN 89-NA-213	
INVESTIGATION OF ENERGY EXCHANGE MECHANISMS BETWEEN THE PEAN AND ACOUSTIC FLOW FIELDS IN SOLID ROCKET COMBUSTION CHAMBERS SCIENTIFIC APPLICATIONS INC	JAMES BAUM	N 17 27/04/89 \$177,530	A BIRKAN 89-NA-257	\$30,973 01/08/89 \$177,530
(90 URI) ELECTROSTATIC LIQUID-FILM RADIATOR NORTHWESTERN UNIVERSITY	S BANKOFF	N 36 03/05/89 \$319,930	BIRKAN 89-NA-267	
SUPPORT FOR THE COMBUSTION INSTITUTE COMBUSTION INSTITUTE	M. CALCOTE	R 24 03/05/89 \$20,000	A BIRKAN 89-NA-275	\$10,000 15/09/89 \$10,000
COMBUSTION OF HYDROGEN AND HYDROCARBONS IN FLUORINE EMORY UNIVERSITY	MYRON KAUFFMAN	R 24 16/05/89 \$111,193	BIRKAN 89-NA-303	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) EVALUATION OF SOIL LIQUEFACTION INDUCED BY FAST DYNAMIC LOADING USING ENERGY PRINCIPLES CASE WESTERN RESERVE UNIVERSITY	FIGUEROA	N 24 11/04/89 \$227,111	BOYCE 89-NA-217	
(90 URI) MICROMECHANICAL BEHAVIOR OF ASPHALT CONCRETE MIXTURES UNDER FATIGUE LOADING CASE WESTERN RESERVE UNIVERSITY	FIGUEROA	N 24 11/04/89 \$230,119	BOYCE 89-NA-218	
(90 URI) VIDEO IMAGE PROCESSING FOR EVALUATING PAVEMENT SURFACE DISTRESS IN MILITARY AIRFIELD PAVEMENTS CASE WESTERN RESERVE UNIVERSITY	FIGUEROA	N 30 11/04/89 \$366,283	BOYCE 89-NA-219	
(90 URI) FLEET: AN EQUIPMENT MANAGEMENT SYSTEM CASE WESTERN RESERVE UNIVERSITY	TAVAKOLI	N 12 25/04/89 \$61,861	BOYCE 89-NA-249	
INVESTIGATION OF THE INTERFACE PHENOMENA CUE TO INTERACTION OF UNDERGROUND NUCLEAR SHOCKWAVES WITH MATERIAL BOUNDARIES UTO INC.	MAJTENYI	N 30 09/05/89 \$306,172	BOYCE 89-NA-293	
ENGINEERING RESEARCH INITIATION GRANTS UNITED ENGINEERING TRUSTEES INC	COMERER	N 26 27/06/89 \$500,001	A BOYCE 89-NA-342	\$1 01/07/89 \$500,001
(90 URI) EFFECTS OF MICROSTRUCTURE ON RELIABILITY AND LIFETIME EXPECTANCY OF ENGINEERING MATERIALS UNIV OF ILLINOIS	CHUDNOVSKY	N 36 24/04/89 \$1,389,509	HARITOS 89-NA-246	
(90 URI) "HIGH PERFORMANCE LAMINATED COMPOSITES." UNIV OF CALIFORNIA	LECKIE	N 36 24/04/89 \$790,909	HARITOS 89-NA-247	
(90 URI) URI PROPOSAL FOR A CENTER ON THE MICRO-MECHANICS OF MULTI-PHASE SOLIDS CORNELL UNIVERSITY	JENKINS	N 36 25/04/89 \$3,375,802	HARITOS 89-NA-252	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(30 URI) HIGH TEMPERATURE HETEROGENEOUS MATERIAL NORTHWESTERN UNIVERSITY	KEER L	N 36 26/04/89 \$1,939,254	HARITOS 89-NA-253	
(90 URI) "GLICALLY LINEAR/LOCALLY NONLINEAR DAMAGE AND DELAMINATION ANALYSIS OF COMPOSITE SHELLS USING A PARALLEL RE-ANALYSIS STANFORD UNIVERSITY	PINSKY PETER	N 24 26/04/89 \$374,427	HARITOS 89-NA-254	
(90 URI) CENTER FOR NONLINEAR RESPONSE IN COMPOSITE MATERIAL SYSTEMS VIRGINIA POLYTECHNIC INST & STATE UNIV	REIFSNIDER K	N 36 02/05/89 \$2,701,173	HARITOS 89-NA-266	
MICROMECHANICS AND FRACTURE MECHANISMS IN HIGH-TEMPERATURE CERAMIC-MATRIX COMPOSITES DREXEL UNIVERSITY	WANG ALBERT	N 36 16/05/89 \$437,919	HARITOS 89-NA-305	
FAILURE MECHANISMS IN LAMINATED COMPOSITES CONTAINING CLTOUTS UNIV OF MICHIGAN	WAAS A	N 36 19/05/89 \$59,481	HARITOS 89-NA-309	\$30,856 01/09/89 \$30,856
ESHELBY FORCES ASSOCIATED WITH AN ADVANCING CRACK SURROUNDED BY VANISHINGLY SMALL INHOMOGENEITY UNIV OF ILLINOIS	WU CHEN	N 12 23/05/89 \$30,856	A HARITOS 89-NA-310	
DEVELOPMENT OF EXPERIMENTAL METHODS RELATED TO DEFORMATION MEASUREMENTS IN MICRON AND SUBMICRON COMAINS OF SOLIDS CALIFORNIA INSTITUTE OF TECHNOLOGY	KNAUSS W	N 24 06/06/89 \$275,896	HARITOS 89-NA-325	
DEFORMATION AND FRACTURE OF FIBER-REINFORCED CERAMIC COMPOSITES TEXAS A AND M UNIVERSITY	SCHAPERY R	N 36 20/06/89 \$375,000	A HARITOS 89-NA-336	\$111,776 01/10/89 \$375,000
(90 URI) BOUNDARY LAYER TRANSITION UNDER JET-MACHINERY FLOW CONDITIONS TEXAS A AND M RESEARCH FOUNDATION	SCHOPFIRI T	N 36 03/04/89 \$212,129	HELIN 89-NA-208	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) UNSTEADY ANALYSIS AND PREDICTION OF VORTEX-COMINATED FLOWS AROUND MANEUVERING, DEFORMING WING-BODY CONFIGURATION GLD OCMINION UNIVERSITY	KANDIL	N 36 13/04/89 \$253,336	CSAMA HELIN 89-NA-221	
(90 URI) EFFECTS OF INLET TURBULENCE AND NOZZLE WAKE ON TURBINE ROTOR UNSTEADY AERODYNAMICS AND UNSTEADY HEAT TRANSFER PENNSYLVANIA STATE UNIVERSITY	LAKS+MIN+RAYANA 8	N 36 17/04/89 \$342,973	HELIN 89-NA-222	
(90 URI) GAS TURBINE BLADE HEAT TRANSFER STAGNATION REGION HYDRO-DYNAMICS AND HEAT TRANSFER UNDER HIGHLY TURBULENT . PENNSYLVANIA STATE UNIVERSITY	YAVUZKURT S	N 36 17/04/89 \$295,064	HELIN 89-NA-223	
(90 URI) BISTABLE BEHAVIOR OF SHOCK TRAINS IN DUCTED SUPERSONIC FLOWS UNIV OF FLORIDA	CARRILL BRUCE	N 36 17/04/89 \$276,648	HELIN 89-NA-224	
(90 URI) CONTROL OF UNSTEADY, SEPARATED FLOWS CALIFORNIA INSTITUTE OF TECHNOLOGY	CIMOTAKIS PAUL	N 36 17/04/89 \$1,173,640	HELIN 89-NA-225	
(90 URI) PHYSICAL AND COMPUTATIONAL MODELING OF THREE-DIMENSIONAL VISCOUS FLOWS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DRELA [REDACTED]	N 24 19/04/89 \$258,270	HELIN 89-NA-243	
AN EXPERIMENTAL STUDY OF NONLINEAR INITIAL RESPONSES FOR LARGE AMPLITUDE AIRFOIL MOTION CHIO UNIVERSITY	GRAHAM GARY	N 18 28/04/89 \$63,702	A HELIN 89-NA-259	\$63,702 01/09/89 \$63,703
THERMAL TRANSPORT MECHANISMS IN NEAR-WALL REGIONS OF TURBULENT BOUNDARY LAYERS WITH VORTEX/WALL JET INTERACTIONS NAVAL POST GRADUATE SCHOOL	LIGRANI PHILLIP	N 36 01/05/89 \$125,800	HELIN 89-NA-264	
(90 URI) CLOSED LOOP AND STRUCTURAL DYNAMIC STABILIZATION OF AEROMECHANICAL SYSTEMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	EPSTEIN ALAN	N 36 03/05/89 \$1,165,695	HELIN 89-NA-273	

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(AFRPT) MASSACHUSETTS INSTITUTE OF TECHNOLOGY		R 12	A	\$292,460
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	GREITZER	15/05/89	HELIN	01/09/89
	E	\$292,460	89-NA-299	\$292,460
HIGH-SPEED UNSTEADY FLOW DIAGNOSTICS		N 12	A	\$100,000
NASA - AMES RESEARCH CENTER	CARR	17/05/89	HELIN	15/06/89
	LARRY	\$100,000	89-NA-306	\$100,000
ANALYSIS OF COUPLED UNSTEADY BOUNDARY-LAYER FLOWS UTILIZING A SEMI-UTILIZING A SEMI-SIMILAR SINGULAR PARABOLIC APPROACH		N 36		
NORTH CAROLINA STATE UNIVERSITY	MULLIGAN	01/06/89	HELIN	
	JAMES	\$277,665	89-NA-319	
FLUID PHYSICS: UNSTEADY FLOWS IN TURBOMACHINES		R 36	A	\$324,225
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	GREITZER	07/06/89	HELIN	20/10/89
	EDWARD	\$973,722	89-NA-330	\$973,722
AERODYNAMIC/DYNAMIC/CONTROL INTERACTION		N 36	A	\$59,993
VIRGINIA POLYTECHNIC INST & STATE UNIV	MOOK	07/06/89	HELIN	15/10/89
	D	\$184,985	89-NA-331	\$184,985
(SBR) EXPLOITATION OF MULTIPLE SOLUTIONS OF THE NAVIER-STOKES EQUATIONS TO ACHIEVE RADICALLY IMPROVED FLIGHT		N 18		
NIELSEN, ENGINEERING AND RESEARCH CO	NIXON	10/04/89	MCMICHAEL	
		\$272,852	89-NA-216	
(90 URI) PROBLEMS IN NONLINEAR INSTABILITIES AND TRANSITION UNDER A VARIETY OF FLIGHT SPEEDS		N 36		
BROWN UNIVERSITY	C LIL	17/04/89	MCMICHAEL	
	JOSEPH	\$893,072	89-NA-226	
(90 URI) APPLICATION OF DYNAMICAL SYSTEMS THEORY TO IDENTIFY FUNDAMENTAL MECHANISMS OF TURBULENCE PRODUCTION		N 36		
CLARKSON UNIVERSITY	GLAUSER	17/04/89	MCMICHAEL	
	MARK	\$337,375	89-NA-227	
(90 URI) THE STRUCTURE OF HIGH REYNOLDS NUMBER TURBULENT BOUNDARY LAYERS		N 36		
PRINCETON UNIVERSITY	SMITS	17/04/89	MCMICHAEL	
	A	\$373,566	89-NA-228	

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(90 URI) THE STRUCTURE OF HIGH REYNOLDS ALMBER TURBULENT BOUNDARY LAYERS, PART A PENNSYLVANIA STATE UNIVERSITY	BRASSEUR J	N 36 17/04/89 \$377,080	MCMICHAEL 89-NA-229	
(90 URI) THE STRUCTURE OF HIGH REYNOLDS NUMBER TURBULENT BOUNDARY LAYER YALE UNIVERSITY	SREENIVASAN K	N 36 17/04/89 \$306,914	MCMICHAEL 89-NA-230	
(90 URI) CENTER FOR CONTROL AND MANAGEMENT OF UNSTEADY AND TURBULENT FLOWS AT THE NATIONAL DIAGNOSTIC FACILITY ILLINOIS INSTITUTE OF TECHNOLOGY	NAGIB HASSAN	N 36 17/04/89 \$1,315,000	MCMICHAEL 89-NA-232	
TRANSITION TO TURBULENCE OF A LAMINAR TWC AND THREE-DIMENSIONAL WALL-JET FLOWS TECHNION RSCH & DEVELOPMENT FOUNDATION	COHEN JACOB	N 36 28/04/89 \$76,150	MCMICHAEL 89-NA-260	
STUDIES OF ANISOTROPIC AND COMPRESSIBLE TURBULENCE OHIO STATE UNIVERSITY	HERBERT THORWALD	N 36 28/04/89 \$962,197	MCMICHAEL 89-NA-261	
RESEARCH ON THEORY OF TURBULENT WALL-LAYERS UNIV OF TEXAS	PANTON RENAME	N 36 01/05/89 \$167,123	MCMICHAEL 89-NA-262	
ESTABLISHMENT OF A DATA BASE FOR THE VALIDATION OF DIRECT NAVIER-STOKES WALL FLOW COMPUTATIONS MICHIGAN STATE UNIVERSITY	FALCC ROBERT	N 24 01/05/89 \$329,095	MCMICHAEL 89-NA-263	
RESEARCH PROBLEMS ON CHAOTIC ADVECTION IN THREE DIMENSIONS AND AT HIGHER REYNOLDS NUMBER COLUMBIA UNIVERSITY	TABOR MICHAEL	N 36 01/05/89 \$255,247	MCMICHAEL 89-NA-265	
RECEPTIVITY OF BOUNDARY LAYERS TO CONNECTED GLTS UNIV OF ARIZONA	KERSCHEN EDWARD	N 36 24/05/89 \$225,165	A MCMICHAEL 89-NA-313	

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INSTITUTION

INVESTIGATOR

EFFECTS OF EXTERNAL FORCING ON ENTRAINMENT RATIO AND FLUID
COMPOSITION IN TURBULENT SHEAR LAYERS
MICHIGAN STATE UNIVERSITY

KODCHESFAMANI

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30/05/89
\$28,000A
MCMICHAEL
89-NA-318INITIATE
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01/07/89
\$28,000

RECEPTIVITY OF BOUNDARY LAYERS TO CONVECTED GLSTS

MCDOONNELL DOUGLAS RESEARCH LAB

WLEZIEH

RICHARD

N 24
05/06/89
\$127,281MCMICHAEL
89-NA-322

INTERACTIVE CONTROL IN TURBULENT SHEAR LAYERS

ILLINOIS INSTITUTE OF TECHNOLOGY

MARK

CANDACE

N 36
05/04/89
\$525,000\$170,000
15/10/89
\$525,000A NUMERICAL INVESTIGATION OF ENERGY TRANSFER AND SUBGRID-SCALE
EDDY VISCOSITY IN HOMOGENEOUS, ISOTROPIC AND SHEAR TURBULENCE
RUTGERS - THE STATE UNIVERSITY (ENGR)

PELZ

RICHARD

N 36
20/06/89
\$136,556MCMICHAEL
89-NA-337A NUMERICAL INVESTIGATION OF ENERGY TRANSFER AND SUBGRID-SCALE
EDDY VISCOSITY IN HOMOGENEOUS, ISOTROPIC AND SHEAR TURBULENCE
UNIV OF SOUTHERN CALIFORNIA

COMARADZKI

J

N 36
20/06/89
\$152,993MCMICHAEL
89-NA-338HEAT TRANSFER PREDICTIONS OF HYPERSONIC TRANSITIONAL FLOWS OVER
COMES

APPLIED & THEORETICAL MECHANICS INC

CHAMFNEY

N 12
07/04/89
\$68,099\$68,099
01/10/89
\$68,099(90 URI) FUNDAMENTAL STUDIES OF UNSTEADY FORCED MIXING BY
STREAMWISE VORTICES IN WALL BOUNDED TURBULENT FLOW
UNIV OF MICHIGAN

BRERETON

GILES

N 36
18/04/89
\$185,590SAKELL
89-NA-233(90 URI) DEVELOPMENT OF SOLUTION-ADAPTIVE COMPUTATIONAL METHODS
FOR 3-D FLIGHT VEHICLE AERODYNAMICS SIMULATION
UNIV OF FLORIDA

HSU

CHEN-CHI

N 36
18/04/89
\$450,000SAKELL
89-NA-234

(90 URI) SUPERSONIC TURBULENCE

BOSTON UNIVERSITY

SANDRI

GUIDO

N 24
18/04/89
\$355,890SAKELL
89-NA-235

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(90 URI) FLOW CONTRL STANFORD UNIVERSITY	REYNOLDS	N 36 18/04/89 \$750,000	SAKELL 89-NA-236	
(90 URI) UNSTEADY AND SEPARATED FLOWS UNIV OF MISSOURI	LEE	N 36 18/04/89 \$230,328	SAKELL 89-NA-237	
(90 URI) ESTABLISHING THE BASIS FOR VALIDATED PREDICTIONS OF HIGHLY NONEQUILIBRIUM FLOWS UNIV OF SOUTHERN CALIFORNIA	ERWIN	N 36 18/04/89 \$2,167,312	SAKELL 89-NA-238	
(90 URI) FUNDAMENTAL STUDIES IN THE RPI HYPERSONIC SHOCK TUNNEL OF LEAVING EDGE BLUNTNESS & STAGNATION LINE HEAT RENNESLAER POLYTECHNIC INSTITUTE	DANIEL	N 24 18/04/89 \$359,759	SAKELL 89-NA-239	
NUMERICAL FLOW SIMULATIONS FOR COMPLETE VEHICLE CONFIGURATIONS MISSISSIPPI STATE UNIVERSITY	SONI	N 36 03/05/89 \$284,558	SAKELL 89-NA-274	
CV/RMS PROCEDURES FOR FLOW PROBLEMS WITH STRONG PRESSURE INTERACTION UNIV OF INDIANAPOLIS	RUBIN	N 24 12/05/89 \$199,820	SAKELL 89-NA-294	
THEORETICAL INVESTIGATION OF THREE-DIMENSIONAL SHOCK WAVE- TURBULENT BOUNDARY LAYER INTERACTIONS RUTGERS - THE STATE UNIVERSITY (ENGR)	DOYLE	R 36 18/05/89 \$265,018	A SAKELL 89-NA-308	\$128,811 30/09/89 \$265,018
DEVELOPMENT AND VALIDATION OF RNG METHODOLOGY FOR COMPRESSIBLE TURBULENCE PRINCETON UNIVERSITY	GEORGE	N 36 13/06/89 \$540,070	SAKELL 89-NA-335	
THEORIES OF TURBULENT COMBUSTION IN HIGH SPEED FLOWS CAMBRIDGE UNIVERSITY (TRUMPINGTON ST)	GRAY	N 36 06/04/89 \$120,000	A TISHKOFF 89-NA-211	\$27,909 01/09/89 \$84,314

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR PHASE II) DEMONSTRATION OF THE CALIQUE DETONATION WAVE FOR HYPERSONIC PREPULSION ASTRON RESEARCH & ENGINEERING	NAKAMURA TAKASHI	R 24 25/04/89 \$495,994	TISHKOFF 89-NA-251	
(90 URI) ADVANCED OPTICAL INSTRUMENTATION FOR SUPERSONICS HYDROGEN HYDROGEN-AIR COMBUSTION FLOWFIELDS UNIV OF VIRGINIA	MCDANIEL JAMES	N 36 26/04/89 \$1,499,794	TISHKOFF 89-NA-256	
(90 URI) VACUUM ULTRAVIOLET PHOTOIONIZATION MASS SPECTROSCOPY FOR IMPROVED DETECTION OF PYROLYSIS AND COMBUSTION PRODUCTS YALE UNIVERSITY	LISA PFEFFERLE	N 36 06/05/89 \$268,790	TISHKOFF 89-NA-282	
(90 URI) ABSOLUTE BAND INTENSITIES FOR MOLECULES IMPORTANT IN COMBUSTION UNIV OF OREGON	HARDWICK JOHN	N 36 06/05/89 \$307,356	TISHKOFF 89-NA-284	
(90 URI) DEVELOPMENT OF A NOVEL TECHNIQUE TO STUDY THE OPTICAL CHARACTERISTICS OF COMBUSTION GENERATED PARTICULATES LOUISIANA STATE UNIVERSITY	CHARALAMPOPOULAS TRIFON	N 36 06/05/89 \$422,430	TISHKOFF 89-NA-285	
(90 URI) A THEORETICAL STUDY OF THE REACTIVITY, DYNAMICS AND KINETICS OF HIGH ENERGY MATERIALS WAYNE STATE UNIVERSITY	WALSH ROBERT	N 36 06/05/89 \$353,220	TISHKOFF 89-NA-286	
(90 URI) SOURCES OF CHEMI-IONS IN HYDROCARBON FLAMES AND THEIR EARLY REACTIONS UNIV OF CALIFORNIA	BAYES KYLE	N 36 06/05/89 \$342,111	TISHKOFF 89-NA-287	
(90 URI) IMPROVEMENT OF COMBUSTION CHARACTERISTICS OF A BURNING SPRAY BY INTERSECTING ELLIPTIC JETS UNIV OF OKLAHOMA	GOLLAHALLI S	N 24 06/05/89 \$167,921	TISHKOFF 89-NA-288	
(90 URI) SHOCK ENHANCEMENT AND CONTROL OF HYPERSONIC COMBUSTION CALIFORNIA INSTITUTE OF TECHNOLOGY	MARBLE FRANK	N 36 06/05/89 \$1,616,185	TISHKOFF 89-NA-299	

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(90 URI) LIQUID-PROPELLANT ROCKET MOTOR COMBUSTION INSTABILITY UNIV OF CALIFORNIA	SIRIGNANO WILLIAM	N 36 06/05/89 \$2,989,976	TISHKOFF 89-NA-290	
(90 URI) HIGH-TEMPERATURE AERODYNAMIC AND COMBUSTION MEASUREMENTS BY OXYGEN A-STATE PUMPING PRINCETON UNIVERSITY	MILES RICHARD	N 36 09/05/89 \$473,840	TISHKOFF 89-NA-291	
(90 URI) RESEARCH ON SUPERSONIC TURBULENT REACTING FLOWS STANFORD UNIVERSITY	BOWMAN CRAIG	N 36 09/05/89 \$2,807,570	TISHKOFF 89-NA-292	
(90 URI) REMPI/MS DIAGNOSTICS AND KINETIC SPECTROSCOPY OF REACTIVE SPECIES INVOLVED IN NITRAMINE DECOMPOSITION REACTIONS EMORY UNIVERSITY	M LIN	N 36 12/05/89 \$482,205	TISHKOFF 89-NA-295	
(90 URI) DROPLET PROCESSES IN LIQUID PROPELLANT ROCKET COMBUSTION INSTABILITY PRINCETON UNIVERSITY	K LAW	N 36 13/05/89 \$625,000	TISHKOFF 89-NA-296	
(90 URI) THE EFFECT OF FLUID TRANSIENTS ON FLAME EXTINCTION UNIV OF FLORIDA	MIKOLAITIS	N 36 13/05/89 \$244,904	TISHKOFF 89-NA-297	
(90 URI) FUNDAMENTAL STUDIES OF CHEMICAL ACOUSTIC AND ELECTRICAL INTERACTIONS IN ROCKET COMBUSTION UNIV OF COLORADO	KASSOY DAVID	N 36 13/05/89 \$1,515,895	TISHKOFF 89-NA-298	
FUNDING FOR SIX AFRIFT STUDENT TRAINEES PRINCETON UNIVERSITY	GLASSMAN IRVIN	R 12 16/05/89 \$179,340	A TISHKOFF 89-NA-301	\$179,340 01/09/89 \$179,340
DETECTING MICROWAVE EMISSIONS FROM TERRESTRIAL SOURCES: A FEASIBILITY STUDY MARQUETTE UNIVERSITY	EHLERT THOMAS	R 24 16/05/89 \$71,073	A TISHKOFF 89-NA-302	\$38,909 01/10/89 \$71,073

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AFRAPT TRAINEESHIPS PENNSYLVANIA STATE UNIVERSITY	SANTAVICCA DOMENIC	R 12 23/05/89 \$135,960	A TISHKOFF 89-NA-312	\$135,960 15/08/89 \$135,960
AIR FORCE RESEARCH IN AERO PROPULSION TECHNOLOGY PURDUE UNIVERSITY	FLEETER SANFORD	R 12 24/05/89 \$149,839	A TISHKOFF 89-NA-316	\$149,839 15/08/89 \$149,839
CHARACTERIZATION OF ACOUSTIC EMISSION SOURCE TO IDENTIFY FRACTURE IN CONCRETE NORTHWESTERN UNIVERSITY	SHAH S	N 36 11/04/89 \$218,653	WU 89-NA-220	
(90 URI) MULTIAXIAL TESTING AND CONSTITUTIVE MODELING OF MEDIUM AND HIGH STRENGTH STEEL FIBER REINFORCED CONCRETE CLARKSON UNIVERSITY	DAVID STEVENS	N 36 19/04/89 \$405,826	WU 89-NA-240	
(90 URI) THE INFLUENCE OF PRINCIPAL STRESS ROTATIONS ON SOIL- STRUCTURE RESPONSE UNIV OF COLORADO	KO MON-YIM	N 36 19/04/89 \$648,602	WU 89-NA-241	
(90 URI) ORGANO-CERAMIC COMPOSITES UNIV OF ILLINOIS	YOUNG	N 36 19/04/89 \$1,098,563	WU 89-NA-242	
(90 URI) INTERFACIAL MICROMECHANICAL BEHAVIOR UNIV OF NEW MEXICO	SCHREYER HOWARD	N 36 20/04/89 \$2,155,344	WU 89-NA-244	
THEORETICAL INVESTIGATION OF PLAIN, FIBER REINFORCED, AND SLURRY REINFORCED FIBER CONCRETES NORTH DAKOTA STATE UNIVERSITY	YAZDANI FRANK	N 24 28/04/89 \$109,000	WU 89-NA-258	
INFLUENCE OF ASPERITIC CONTACT AREA ON THE SHEAR BEHAVIOR OF JOINTED ROCK WORCESTER POLYTECHNIC INSTITUTE	SAGE JOSEPH	N 24 24/05/89 \$238,166	WU 89-NA-314	

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FRACTURE BEHAVIOR OF MORTAR-AGGREGATE INTERFACES IN HIGH STRENGTH CONCRETE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BUYUKOZTLRK CRL	N 36 24/05/89 \$362,180	WU 89-NA-315	
AN INVESTIGATION OF THE MECHANICS OF JOINTED MEDIA UNIV OF WISCONSIN	PLESHA MICHAEL	N 36 05/06/89 \$444,100	WU 89-NA-321	
LASER SHOCK DAMAGE OF FE SINGLE CRYSTALS UNIV OF ILLINOIS	LAWRENCE, JR FREDERICK	N 36 07/06/89 \$434,414	WU 89-NA-329	
RATE AND CONFINEMENT EFFECTS ON CRACKING AND FAILURE IN UNIAXIAL COMPRESSION OF CONCRETE UNIV OF FLORIDA	MALVERN LAWRENCE	N 24 21/06/89 \$238,435	WU 89-NA-339	
COUPLED MECHANICAL AND HYDRAULIC BEHAVIOR OF SATURATED ROCK JOINTS UNDER CYCLIC LOADS UNIV OF TENNESSEE	CRUM ERIC	N 24 27/06/89 \$126,434	WU 89-NA-341	

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URI CHEMICAL PHYSICS OF ENERGETIC REACTIONS OF ATOMIC OXYGEN AT SURFACES STANFORD UNIVERSITY	MADIX	N 12 13/04/89 \$483,693	BURGGRAF 89-NC-229	
PARTICLE-INDUCED SURFACE REACTIONS & EROSION RELEVANT TO SPACE ENVIRONMENTS (URI) UNIV OF WASHINGTON	WATTS	N 12 14/04/89 \$102,622	BURGGRAF 89-NC-231	
ATOMIC BEAM STUDIES RELATIVE TO THE SPACE ENVIRONMENT (URI) UNIV OF DENVER	AMME	N 12 14/04/89 \$279,860	BURGGRAF 89-NC-237	
SURFACE REACTIONS IN THE SPACE ENVIRONMENT (URI) VANDERBILT UNIVERSITY	TOLK	N 12 14/04/89 \$466,070	BURGGRAF 89-NC-238	
CENTER FOR SURFACE RADIATION DAMAGE STUDIES (URI) NORTHWESTERN UNIVERSITY	MARKS	N 12 17/04/89 \$524,949	BURGGRAF 89-NC-241	
(URI) SURFACE REACTIONS BETWEEN ENERGETIC PROTONS AND CARBON IN SPACE ENVIRONMENTS UNIV OF FLORIDA	BURNS	N 12 18/04/89 \$46,445	BURGGRAF 89-NC-242	
6TH INTERNATIONAL CONFERENCE ON VIBRATIONS AT SURFACES BROOKHAVEN NATIONAL LABORATORY	WILLIAMS	N 4 09/05/89 \$7,000	BURGGRAF 89-NC-258	
HYPERTHERMAL ATOMIC OXYGEN GENERATOR NASA - LANGLEY RESEARCH CENTER	CUTLAW	N 03 16/05/89 \$21,618	A BURGGRAF 89-NC-264	\$21,618 01/06/89 \$21,618
FORMATION AND IDENTIFICATION OF HIGH ENERGY LINEAR AND CYCLIC O N (N=4-8) POLYMERS IIT RESEARCH INSTITUTE	SNELSON	N 12 12/05/89 \$92,156	DAVIS 89-NC-261	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
HIGH PRESSURE STUDIES AND SYNTHESIS OF HIGH DENSITY PHASES OF BERYLLIUM HYDRIDE LAWRENCE LIVERMORE LAB (CALIF UNIV)	AKELLA	N 12 18/05/89 \$83,070	DAVIS 89-NC-265	
FUNDAMENTAL STUDIES OF THE INITIATION OF THERMAL EXPLOSIONS UNIV OF DELAWARE	BRILL THOMAS	N 12 18/05/89 \$80,113	DAVIS 89-NC-266	
SYNTHESIS OF NEW CHEMICAL COMPOUNDS THAT ARE POTENTIAL HIGH ENERGY DENSITY MATERIALS UNIV OF WISCONSIN	GAINES DONALD	N 12 23/05/89 \$135,941	DAVIS 89-NC-269	
QUANTUM CHEMICAL STUDIES OF MOLECULAR STATES AND PROPERTIES OF CANDIDATE HIGH ENERGY DENSITY MATERIALS ARMY ARMAMENT R&D CMC/BALLISTICS RSCH LA	ADAMS GEORGE	N 12 23/05/89 \$150,596	DAVIS 89-NC-270	
LASER AND FOURIER TRANSFORM SPECTROSCOPY OF ACCEL PROPELLANT MOLECULES UNIV OF ARIZONA	BERNATH PETER	N 12 26/05/89 \$309,403	DAVIS 89-NC-273	
PHOTOGENERATION AND CHARACTERIZATION OF ENERGETIC MOLECULES IN SUPERSONIC MOLECULAR BEAMS UNIV OF GEORGIA	CUNCAN	N 12 26/05/89 \$82,173	DAVIS 89-NC-274	
STABILITY OF HIGH ENERGY AMORPHOUS MATERIALS UNIV OF UTAH	HIGHT CHARLES	N 12 31/05/89 \$72,793	DAVIS 89-NC-280	
PHOTOPHYSICS OF HIGH ENERGY DENSITY MATERIALS NATIONAL BUREAU OF STANDARDS	CASASSA MICHAEL	N 12 31/05/89 \$150,000	DAVIS 89-NC-281	
IONIC SOLID HYDROGEN FUEL: STORAGE OF IONS IN A HYDROGEN MATRIX SRI INTERNATIONAL	BAE YOUNG	N 12 31/05/89 \$185,147	DAVIS 89-NC-282	

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HIGH ENERGY MATERIALS BASED ON STABILIZED ALUMINUM AND BCRON ATOMS				
IIT RESEARCH INSTITUTE	SNELSON	N 12 31/05/89 \$108,999	DAVIS 89-NC-283	
DYNAMICS OF ENERGETIC SPECIES IN CONDENSED PHASES				
CHEMICAL DYNAMICS CORPORATION	GARRETT	N 12 01/06/89 \$116,073	DAVIS 89-NC-284	
SYNTHESIS OF HIGHLY ENERGETIC COMPOUNDS BY PHOTODECOMPOSITION OF STRAINED MIXED COMPOUNDS				
MARTIN MARIETTA CORPORATION	VERNEKER	N 12 01/06/89 \$102,788	DAVIS 89-NC-285	
CRAY 2 CALCULATIONS ON NLO MOLECULES				
STATE UNIVERSITY OF NEW YORK	PRASAD	N 04 01/06/89 \$2,000	A DAVIS 89-NC-287	\$2,000 01/06/89 \$2,000
INSTALLATION, LICENSING, AND TESTING OF CADPAK QUANTUM CHEMICAL SOFTWARE ON THE CRAY 2 SUPERCOMPUTER AT THE WEAPONS LAB, KIRTLAND CAMBRIDGE UNIVERSITY (CAVENDISH LAB)				
	ROGER	N 04 01/06/89 \$5,000	A DAVIS 89-NC-288	\$5,000 01/06/89 \$5,000
THEORETICAL DETERMINATION OF POTENTIAL ENERGY SURFACES ON THE OZONE MOLECULE				
IOWA STATE UNIV OF SCIENCE AND TECH	RUEDENBERG	N 12 02/06/89 \$57,120	DAVIS 89-NC-291	
INVESTIGATION OF HYPERVALENT COMPOUNDS AS HIGH-ENERGY MATERIALS				
UNIV OF OREGON	ENGELKING	N 12 02/06/89 \$98,897	DAVIS 89-NC-292	
DYNAMICS AND ENERGETICS OF IONS AND RADICALS IN CONDENSED MEDIA				
UNIV OF CALIFORNIA	APKARIAN	N 12 02/06/89 \$357,326	DAVIS 89-NC-293	
STUDIES OF NITROCARBENES AND THEIR USE IN THE SYNTHESIS OF NOVEL HIGH ENERGY DENSITY MATERIALS				
UNIV OF PENNSYLVANIA	CAILEY, III	N 12 02/06/89 \$104,553	DAVIS 89-NC-294	

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CRYOGENIC PRECUCTION AND STABILIZATION OF HIGH ENERGY DENSITY N2 AND C4 PHYSICAL SCIENCES INC	MARINELLI	N 12 05/06/89 \$158,260	DAVIS 89-NC-295	
INTRAMOLECULAR DYNAMICS OF EXCITED TRANSIENT COMPLEXES IN CHEMICAL REACTIONS UNIV OF NEVADA	SHIN	N 12 29/06/89 \$93,363	DAVIS 89-NC-307	
NEW PERFLUOROPOLYETHERS AS POTENTIAL LUBRICANTS UNIV OF DURHAM	CHAMBERS	R 24 03/04/89 \$49,150	A MATUSZKO 89-NC-223	\$49,150 01/09/89 \$49,150
HIGHLY FLUORINATED NITROGEN-CONTAINING COMPOUNDS. NEW STABLE FLUICS. IDAHO UNIVERSITY	SHREEVE	R 12 04/05/89 \$90,000	A MATUSZKO 89-NC-251	\$90,000 01/12/89 \$90,000
PICOSECOND LASER STUDIES OF CHEMICAL INTERMEDIATES COLUMBIA UNIVERSITY	EISENTHAL	R 12 09/05/89 \$140,005	A MATUSZKO 89-NC-254	\$140,005 30/09/89 \$140,005
PICOSECOND LASER STUDIES OF CHEMICAL INTERMEDIATES COLUMBIA UNIVERSITY	EISENTHAL	R 12 12/05/89 \$140,005	MATUSZKO 89-NC-262	
ULTRASTRUCTURE PROPERTY RELATIONSHIPS IN BIOMATERIALS UNIV OF WASHINGTON	SARIKAYA	N 18 25/05/89 \$75,000	A MATUSZKO 89-NC-272	\$75,000 01/08/89 \$75,000
SELENIUM RICH AND TELLURIUM RICH MOLECULES UNIV OF GEORGIA	KING	N 12 31/05/89 \$103,997	MATUSZKO 89-NC-278	
ORGANOSILICON COMPOUNDS AND POLYMERS AND SILICON CERAMICS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SEIFERTH	R 12 14/06/89 \$230,000	A MATUSZKO 89-NC-301	\$230,000 01/10/89 \$460,000

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TRANSITION METAL COMPLEXES WITH PERFLUORINATED LIGANDS				
DARTMOUTH COLLEGE	HUGHES	N 12 27/06/89 \$122,879	MATUSZKL 89-NC 304	
CENTER OF EXCELLENCE IN THEORETICAL GEOPLASMA RESEARCH (URI)				\$512,000
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CHANG	N 12 03/04/89 \$829,400	STOBIE 89-NC-224	01/10/89 \$1,536,000
IDENTIFYING HIGH CHARGE REGIONS OF THUNDER CLOUDS				
UNIV OF NEVADA	TELFORD	N 12 06/04/89 \$50,000	D STOBIE 89-NC-227	
ELECTRICAL CONDUCTIVITY OF THE VERY-DISTURBED LOWER IONOSPHERE (URI)				
PENNSYLVANIA STATE UNIVERSITY	MITCHELL	N 12 14/04/89 \$525,000	STOBIE 89-NC-234	
(URI) THEORY AND ANALYSIS OF THE GEO-PLASMA ENVIRONMENT				\$280,000
UTAH STATE UNIVERSITY	SCHUNK	N 12 14/04/89 \$280,000	A STOBIE 89-NC-236	01/10/89 \$840,000
AUTOMATIC CLOUD CLASSIFICATION FROM MULTI-SPECTRAL SATELLITE DATA				
UNIV OF CALIFORNIA, SAN DIEGO	GAUTIER	N 12 20/04/89 \$80,132	STOBIE 89-NC-244	
LOCATION AND CHARACTERIZATION OF IN-CLOUD LIGHTNING CURRENTS BY MULTIPLE STATION VHF AND ELECTRIC FIELD MEASUREMENTS				
UNIV OF FLORIDA	THOMSON	N 12 24/04/89 \$68,225	STOBIE 89-NC-247	
APPLICATION OF ARTIFICIAL INTELLIGENCE AND REMOTE SENSING TECHNIQUES TOWARD CLOUD FORECASTING IN THE TROPICS				
ANALYTIC SCIENCES CORPORATION	MUTCHINSON	N 12 19/05/89 \$113,340	STOBIE 89-NC-267	
PARTIAL SUPPORT: NAS BOARD ON ATMOSPHERIC SCIENCE AND CLIMATE (OBASC)				\$30,000
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	PECHT	N 12 02/06/89 \$30,000	A STOBIE 89-NC-290	01/10/89 \$30,000

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
AN INVESTIGATION OF LARGE-AMPLITUDE MOUNTAIN WAVES IN A STABLY STRATIFIED AIRSTREAM UNIV OF COLORADO	BLUMEN	N 12 05/06/89 \$48,397	STOBIE 89-NC-296	
MICROPHYSICS OF THUNDERSTORM ELECTRIFICATION	WILLIAMS	N 12 07/06/89 \$92,616	STOBIE 89-NC-297	
DAVID SARNOFF RESEARCH CENTER	RICHARD			
STUDIES OF BAROCLINIC FLOW		N 12 07/06/89 \$255,000	A STOBIE 89-NC-298	\$85,000 01/10/89 \$255,000
FLORIDA STATE UNIVERSITY	PFEFFER			
A NUMERICAL STUDY OF THUNDERSTORM ELECTRIFICATION	BAKER	N 12 08/06/89 \$181,100	STOBIE 89-NC-299	
UNIV OF WASHINGTON	MARCIA			
NUMERICAL SIMULATION STUDIES OF MOUNTAIN CRAG-INDUCED ALONGSTREAM AGEOSTROPY IN JET STREAKS AND THE MESO-BETA SCALE SEVERE STORM	YUN-LANG	N 12 16/06/89 \$144,936	STOBIE 89-NC-302	
UNIV OF WASHINGTON				
SBIR TECHNOLOGICALLY USEFUL NLO FILMS FOR POLYPHENYLENE VINYLENE AND ITS COPOLYMERS FOSTER-MILLER INC	DRUY	N 12 04/04/89 \$66,733	ULRICH 89-NC-225	
STAR BLOCK IONOMERS		N 12 04/04/89 \$374,093	ULRICH 89-NC-226	
ATLANTA UNIVERSITY	ISHRAT			
SYMPOSIUM ON POLYMER-BASED MOLECULAR COMPOSITES		N 12 07/04/89 \$5,000	ULRICH 89-NC-228	
UNIV OF CINCINNATI	MARK			
INVESTIGATION OF THE FACTORS INVOLVED IN CRACK FORMATION DURING DRYING OF SILICON SOL-GELS	BRADLEY	N 12 14/04/89 \$85,556	ULRICH 89-NC-230	
UNIV OF CONNECTICUT	MICHAEL			

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
POLYMER GELS AS PRECURSORS TO HIGH-PERFORMANCE MATERIALS UNIV OF CINCINNATI	MARK	N 12 14/04/89 \$503,492	ULRICH 89-IC-232	
(UNID) METALLOCENE LIQUID CRYSTALS AND LIQUID CRYSTAL POLYMERS UNIV OF OKLAHOMA	NICHOLAS	N 12 14/04/89 \$402,214	ULRICH 89-NC-239	
CHARACTERIZATION AND DEVELOPMENT OF TRANSPARENT ELECTROACTIVE COPEL LADDER-TYPE POLYMERS FOR NONLINEAR OPTICS HEBREW UNIVERSITY	DAVICOV	N 12 24/04/89 \$152,000	ULRICH 89-NC-248	
MOLECULAR COMPOSITES FROM ROC AND FLEXIBLE POLYQUINOLINES COLORADO STATE UNIVERSITY	STILLE	N 12 25/04/89 \$40,851	ULRICH 89-NC-249	
SYNTHESIS AND PROPERTIES OF NOVEL, ELECTROACTIVE ORGANOMETALLIC POLYMERS BRANDEIS UNIVERSITY	ROSENBLUM	N 12 27/04/89 \$151,895	ULRICH 89-NC-250	
CHARACTERIZATION AND DEVELOPMENT OF TRANSPARENT ELECTROACTIVE COPEL LADDER-TYPE POLYMERS FOR NONLINEAR OPTICS HEBREW UNIVERSITY	DAVICOV	N 12 05/05/89 \$152,000	W ULRICH 89-NC-252	
PHASE TRANSFORMATIONS, ULTRASTRUCTURE AND PROPERTIES OF FIGIO-ROD POLYMERS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	THOMAS	N 12 08/05/89 \$195,698	ULRICH 89-NC-253	
ORGANIC MATERIALS FOR THIRD-ORDER NONLINEAR OPTICS EASTMAN KODAK CO.	PENNER	N 12 09/05/89 \$370,035	W ULRICH 89-NC-255	
SYMPOSIUM ON CHEMICAL PRECURSORS TO CERAMICS AMERICAN CHEMICAL SOCIETY	TEBEE	N 02 09/05/89 \$2,000	A ULRICH 89-NC-256	\$2,000 01/09/89 \$2,000

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ORGANIC MATERIALS FOR THIRD-ORDER NONLINEAR OPTICS EASTMAN KODAK CO.	PENNER	THOMAS	N 12 09/05/89 \$370,039	ULRICH 89-NC-257	\$5,000 13/06/89 \$5,000
MATERIALS CHEMISTRY SYMPOSIUM AMERICAN CHEMICAL SOCIETY	LAINÉ	RICHARD	N 12 10/05/89 \$5,000	A ULRICH 89-NC-259	\$5,000 13/06/89 \$5,000
FUNDAMENTAL STUDIES OF PRISTINE AND INTERCALATED CARBON FIBERS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DRESSELHAUS	MILDRED	R 12 11/05/89 \$241,890	ULRICH 89-NC-260	
1989 MATERIALS RESEARCH SOCIETY SYMPOSIUM MATERIALS RESEARCH SOCIETY	KARASZ	FRANK	N 06 22/05/89 \$25,000	A ULRICH 89-NC-268	\$25,000 15/09/89 \$25,000
AGGREGATION IN BLOCK COPOLYMER SYSTEMS NORTHWESTERN UNIVERSITY	DE LA CRLZ	MONICA OLVERA	N 12 25/05/89 \$84,524	ULRICH 89-NC-271	
AN INVESTIGATION OF CVD DIAMOND BASED COMPOSITE DESIGN AND FABRICATION PENNSYLVANIA STATE UNIVERSITY	YARBROUGH		N 12 30/05/89 \$135,550	ULRICH 89-NC-275	
US-JAPANESE JOINT WORKSHOP ON PROCESSING OF ADVANCED CERAMICS ARMY RESEARCH OFFICE	CROWSON	ANDREW	N 12 30/05/89 \$7,500	A ULRICH 89-NC-276	\$7,500 08/08/88 \$7,500
IN SUPPORT OF US-JAPANESE JOINT WORKSHOP ON SMART MATERIALS AND STRUCTURES ARMY RESEARCH OFFICE	CROWSON	ANDREW	N 12 30/05/89 \$7,500	A ULRICH 89-NC-277	\$7,500 01/02/90 \$7,500
MULTIFUNCTIONAL POLYMERIC MATERIALS: SYNTHESIS AND CHARACTERIZATION VIRGINIA POLYTECHNIC INST & STATE UNIV	MCGRATH	JAMES	N 12 01/06/89 \$90,762	ULRICH 89-NC-289	

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NOVEL MAIN GROUP CHEMISTRY	LUKEPARY	N 12 22/06/89 \$106,031	ULRICH 89-NC-303	
VANDERBILT UNIVERSITY	CHARLES			
SYNTHETIC HIERARCHICAL STRUCTURES		N 17 29/06/89 \$10,000	ULRICH 89-NC-306	
NATIONAL ACADEMY OF SCIENCES	ZWILSKY			
MOLTEN SALT SYSTEMS FOR NEW REACTION CHANNELS		N 12 14/04/89 \$352,089	WILKES 89-NC-240	
UNIV OF WASHINGTON	POCKER			
SHORT WAVELENGTH HYDROGEN FLUORIDE CHEMICAL LASERS		N 12 21/04/89 \$61,746	A WODARCZYK 89-NC-245	\$20,582 01/09/89 \$61,746
ANTROPIX CORPORATION	KUNZ			
STATE-SELECTED AND STATE-TO-STATE CROSS SECTIONS FOR THE REACTIONS O+(4S,2D,2P) + N2(CO2,CO2)		N 12 24/04/89 \$108,346	WODARCZYK 89-NC-246	
IOWA STATE UNIV OF SCIENCE AND TECH	NG			
12TH INTERNATIONAL CONFERENCE ON LASERS AND APPLICATIONS		N 06 16/05/89 \$5,000	D WODARCZYK 89-NC-263	
SOCIETY FOR OPTICAL/QUANTUM ELECTRONICS	HARRIS			
DESIGN AND EVALUATION OF HIGH EFFICIENCY PROPELLANTS		N 12 31/05/89 \$209,610	WODARCZYK 89-NC-279	
CORNELL UNIVERSITY	CARPENTER			
DETERMINATION OF THE DETONATION MECHANISM OF CBES PROPELLANTS		N 12 01/06/89 \$237,998	WODARCZYK 89-NC-286	
ROCKWELL INTERNATIONAL	SEDER			
	T.A.			

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ADAPTIVE NETWORKS FOR SEQUENTIAL DECISION PROBLEMS

UNIV OF MASSACHUSETTS

BARTC

ANDREW

N 36
10/04/89
\$355,000A
GILES
89-NE-220
\$120,000
30/09/89
\$355,000DESIGN AND IMPLEMENTATION OF CMOS NEURAL NETWORKS FOR BUILT-IN
SELF-REPAIR OF VLSI CHIPS WITH EMBEDDED LOGIC AND MEMORY ARRAYS
UNIV OF MICHIGAN

PINAKI

N 36
10/04/89
\$393,634GILES
89-NE-223

AN EVOLUTIONARY APPROACH TO DESIGNING NEURAL NETWORKS

SRI INTERNATIONAL

BARNARD

STEPHEN

N 24
11/04/89
\$200,000A
GILES
89-NE-224
\$25,000
15/07/89
\$200,000USING MODULAR NEURAL NETWORKS WITH LOCAL REPRESENTATIONS TO
CONTROL DYNAMIC SYSTEMS
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ATKESON

CHRISTOPHER

N 36
14/04/89
\$360,000A
GILES
89-NE-231
\$130,000
01/09/89
\$360,000

ADAPTIVE NETWORK FOR PROCESS CONTROL

UNIV OF PENNSYLVANIA

UNGAR

LYLE

N 36
14/04/89
\$431,215GILES
89-NE-232INVESTIGATING DIGITAL OPTICAL COMPUTING WITH SPATIAL LIGHT
REBROADCASTERS (SRLS)
WRIGHT STATE UNIVERSITY

MCAULAY

N 24
14/04/89
\$250,304A
GILES
89-NE-233
\$185,000
01/09/89
\$250,304

INTEGRATED OPTICAL COMPUTING

UNIV OF SOUTHERN CALIFORNIA

STEIER

WILLIAM

N 36
18/04/89
\$3,298,390GILES
89-NE-240NEURODYNAMICS: ALGORITHMS, ARCHITECTURES, PHOTONIC IMPLEMENTATIONS
AND APPLICATIONS
UNIV OF PENNSYLVANIA

FARHAT

NEBIL

N 36
18/04/89
\$500,396GILES
89-NE-241A SCALING STUDY OF ARTIFICIAL NEURAL ASSOCIATIVE MEMORIES
POSSESSING LIMITED CONNECTIVITY
NORTHWESTERN UNIVERSITY

PESHKIN

NUCGAEK

N 36
18/04/89
\$243,732GILES
89-NE-242

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ALGORITHMS FOR PARALLEL AND FAULT TOLERANT COMPUTING ON CISTRIBUTE D MEMORY MULTIPROCESSORS OHIO STATE UNIVERSITY	CZGNER FUSUNT	N 36 18/04/89 \$206,436	GILES 89-NE-243	
ORGANIC ELECTRO-OPTIC AND ALL-OPTICAL MODULATORS AND SWITCHES UNIV OF ARIZONA	PEYGHANBARIAN N.	N 36 20/04/89 \$329,367	GILES 89-NE-259	
POLARIZING OPTICAL SYSTEMS FOR DIGITAL OPTICAL COMPUTING WITH SYMMETRIC SELF ELECTROOPTIC DEVICES UNIVERSITY OF ALABAMA	CHIPMAN RUSSELL	N 24 20/04/89 \$140,000	A GILES 89-NE-260	\$113,000 01/08/89 \$140,000
CPTOELECTRONIC IMPLEMENTATION OF A COMPLETE VISION MODEL STUDY PROGRAM BALL SYSTEM ENGINEERING DIVISION	BOWMAN C.	N 36 24/04/89 \$600,813	GILES 89-NE-263	
SPEAKER INDEPENDENCE AND ACCENT ADAPTION BY CONNECTIONIST NETWORK CARNEGIE-MELLON UNIVERSITY	HAIBEL ALEX	N 36 24/04/89 \$331,642	GILES 89-NE-264	
COMPUTATION AND LEARNING IN NEURAL NETWORKS WITH BINARY WEIGHTS UNIVERSITY OF PENNSYLVANIA	VENKATESH [REDACTED]	N 36 27/04/89 \$203,500	A GILES 89-NE-266	\$70,500 01/09/89 \$203,500
NEW NEURAL ALGORITHMS FOR SELF-ORGANIZED LEARNING YALE UNIVERSITY	PERLIS ALAN	N 24 02/05/89 \$120,000	A GILES 89-NE-270	\$59,000 01/08/89 \$120,000
DEVICE STUDIES BASED ON MULTIPLE QUANTUM WELL LIGHT MODULATORS FOR OPTICAL COMPUTING UNIV OF CALIFORNIA, SAN DIEGO	ESENER SADIK	N 36 04/05/89 \$517,642	GILES 89-NE-272	
ALGORITHM/ARCHITECTURE STUDY ON ARTIFICIAL NEURAL NETS PRINCETON UNIVERSITY	KUNG SUN-YUAN	N 36 15/05/89 \$300,000	A GILES 89-NE-278	\$108,000 01/09/89 \$300,000

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ULTRAFAST NONLINEAR OPTICS TO OPTICAL COMPUTING CITY COLLEGE - CUNY	ALFANO	N 36 24/05/89 \$645,610	GILES 89-NE-285	
POLYMERIC ULTRATHIN FILM MULTILAYER MODULATORS UNIV OF CALIFORNIA	KOWEL	N 36 26/05/89 \$395,383	GILES 89-NE-286	
IEEE CONFERENCE ON NEURAL INFORMATION PROCESSING SYSTEMS - NATURAL AND SYNTHETIC UNIV OF COLORADO	KIRKPATRICK	N 06 30/05/89 \$5,000	GILES 89-NE-287	
A NEURAL NETWORK ARCHITECTURE FOR MULTIAPERTURE OPTICAL SYSTEMS FOR MOTION DETECTION: EARLY AND INTERMEDIATE VISION STETSON UNIVERSITY	DAVID LAWSON	N 12 05/06/89 \$39,309	D GILES 89-NE-292	
NEURAL NETWORK MODELS FOR MOTOR LEARNING MASSACHUSETTS INSTITUTE OF TECHNOLOGY	JORDAN	N 36 20/06/89 \$365,277	GILES 89-NE-293	
AN INFORMATION THEORETIC APPROACH TO DISTRIBUTED INFERENCE AND LEARNING CALIFORNIA INSTITUTE OF TECHNOLOGY	GOODMAN	N 28 21/06/89 \$340,000	A GILES 89-NE-294	
ADAPTIVE IDENTIFICATION AND CONTROL OF DYNAMICAL SYSTEMS USING NEURAL NETWORKS YALE UNIVERSITY	NARENDRA	N 36 21/06/89 \$361,947	GILES 89-NE-295	
INTERNATIONAL SYMPOSIUM ON NEURAL NETWORKS FOR SENSORY AND MOTOR SYSTEMS (NSMS) NEUSS/DUSSELDORF(FRG) OFFICE OF NAVAL RESEARCH	ECKMILLER	N 03 22/06/89 \$7,000	GILES 89-NE-297	
PHOTONIC TECHNOLOGY FOR IMPLEMENTATION OF GENERALIZABLE NEURAL NETWORKS: A SYNTHETIC APPROACH UNIV OF SOUTHERN CALIFORNIA	JENKINS	N 28 23/06/89 \$800,000	A GILES 89-NE-299	\$253,580 30/09/89 \$713,580

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DEVELOPMENT OF NEURAL MODULES BASED ON SIMPLZT TECHNOLOGY FOR OPTOELECTRONIC IMPLEMENTATION OF NEURAL NETWORKS UNIV OF CALIFORNIA, SAN DIEGO	ESENER	N 24 23/06/89 \$400,000	A GILES 89-NE-300	\$200,000 01/10/89 \$400,000
OPTICAL ASSOCIATIVE PROCESSORS AND DIRECTED GRAPHS CARNEGIE-MELLON UNIVERSITY	CASASENT	N 36 23/06/89 \$157,720	GILES 89-NE-301	
NEURAL NETWORKS FOR MODEL-BASED RECOGNITION YALE UNIVERSITY SCHOOL OF MEDICINE	GINDI	R 36 26/06/89 \$386,580	GILES 89-NE-302	
ALGORITHMS AND ARCHITECTURES FOR REAL-TIME ROBOT CONTROL UNIV OF CALIFORNIA	PSIA	N 24 30/06/89 \$231,607	GILES 89-NE-307	
SPATIAL LIGHT MODULATORS WITH ARBITRARY QUANTUM WELL PROFILES ARIZONA STATE UNIVERSITY	BAJAJ	N 36 18/04/89 \$1,200,361	LITTON 89-NE-239	
STUDY OF ULTRATHIN EPITAXIAL INTERMETALLIC FILMS ON III-V MATERIAL S GROWN BY MOLECULAR BEAM EPITAXY MONTANA STATE UNIVERSITY	LAPEYRE	N 36 18/04/89 \$1,410,600	LITTON 89-NE-246	
GROWTH AND PROCESSING OF COMPOUND SEMICONDUCTORS CARNEGIE-MELLON UNIVERSITY	MAHAJAN	N 22 18/04/89 \$2,296,673	LITTON 89-NE-247	
CRYOELECTROSYNTHESIS OF COMPOUND SEMICONDUCTORS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SADOWAY	N 36 18/04/89 \$118,231	LITTON 89-NE-249	
A NOVEL PHOTO-ACTIVATED ELECTRODE TECHNIQUE FOR SURFACE PATTERNING STEVENS INSTITUTE OF TECHNOLOGY	SHEPPARD	N 36 19/04/89 \$378,397	LITTON 89-NE-250	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CONDUCTION BAND INTERFACE STATES IN II-VI/III-V HETEROEPIITAXIAL SEMICONDUCTORS MONTANA STATE UNIVERSITY	FORD WAYNE	N 36 19/04/89 \$158,100	LITTON 89-NE-251	
EXPLORATORY DEVELOPMENT IN WHISPERING-GALLERY MILLIMETER WAVE WAVEGUIDE TECHNOLOGY WRIGHT STATE UNIVERSITY	EPERS WILLIAM	N 15 24/04/89 \$118,504	LITTON 89-NE-261	
SEVENTEENTH ANNUAL CONFERENCE ON THE PHYSICS & CHEMISTRY OF SEMICONDUCTOR INTERFACES UNIV OF FLORIDA	ROWE JACK	N 12 01/05/89 \$8,400	A LITTON 89-NE-268	\$8,400 30/09/89 \$8,400
DIAGNOSTICS OF A CHEMICALLY REACTIVE FLOW: CHEMICAL VAPOR DEPOSITION UNIV OF ICMA	ALLEN SUSAN	N 36 01/05/89 \$586,640	LITTON 89-NE-269	
MAGNETO-OPTICAL PROPERTIES OF QUANTUM WELLS WITH ARBITRARY POTENTIAL PROFILES ARIZONA STATE UNIVERSITY	BAJAJ KRISHNA	N 36 18/05/89 \$400,000	A LITTON 89-NE-280	\$75,000 15/09/89 \$400,000
ATOMIC FORCE MICROSCOPY STANFORD UNIVERSITY	CUATE GARY	N 36 31/05/89 \$470,130	LITTON 89-NE-288	
LOW ENERGY ION IMPLANTATION FOR ULTRA-SHALLOW JUNCTION FORMATION NORTH CAROLINA STATE UNIVERSITY	RUGGLES GARY	N 24 02/06/89 \$299,967	LITTON 89-NE-291	
GENERIC CONSEQUENCES OF FUNDAMENTAL STUDIES OF BETA PHASE DECOMPOSITION MODES IN TITANIUM AND RELATED ALLOY SYSTEMS CARNEGIE-MELLON UNIVERSITY	AARONSON HUBERT	N 24 03/04/89 \$298,915	A ROSENSTEIN 89-NE-217	\$166,000 30/09/89 \$298,915
STRENGTH AND TOUGHNESS IMPROVEMENT OF SILICIDE INTERMETALLICS BY NANOPHASE AND MICROPHASE REINFORCEMENTS MCDONNELL DOUGLAS RESEARCH LAB	SASTRY S. M. L.	N 36 03/04/89 \$390,264	A ROSENSTEIN 89-NE-218	\$124,341 01/10/89 \$390,264

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FUNDAMENTALS OF MECHANICAL BEHAVIOR IN ADVANCED INTERMETALLIC COMPOUNDS CARNEGIE-MELLON UNIVERSITY	HOWE JAMES	N 36 13/04/89 \$379,933	A ROSENSTEIN 89-NE-230	\$118,662 01/10/89 \$379,933
INTERMETALLIC COMPOUNDS FOR HIGH-TEMPERATURE STRUCTURES CARNEGIE-MELLON UNIVERSITY	THOMPSON ANTHONY	N 36 18/04/89 \$2,240,322	ROSENSTEIN 89-NE-244	
CENTER FOR ADVANCED STRUCTURAL METALLIC MATERIALS: INTERFACE DESIGN N IN INTERMETALLIC ALLOYS AND COMPOSITES UNIV OF MICHIGAN	GIBALA RONALD	N 36 18/04/89 \$1,890,000	ROSENSTEIN 89-NE-245	
DEVELOPING AND UNDERSTANDING THE HIGH TEMPERATURE BEHAVIOR OF NIOBIUM ALUMINIDES AND NIOBIUM ALUMINIDE COMPOSITES UNIV OF TEXAS	TIEH JOHN	N 36 19/05/89 \$370,227	A ROSENSTEIN 89-NE-282	\$117,428 01/11/89 \$370,227
KINETIC AND THERMODYNAMIC CHARACTERISTICS OF INTERMETALLIC MATERIALS PROCESSING UNIV OF UTAH	SCHLESINGER MARK	N 36 01/06/89 \$296,155	ROSENSTEIN 89-NE-290	
NUCLEATION AND GROWTH IN CHEMICAL VAPOR DEPOSITION OAK RIDGE NATIONAL LAB	BESMANN JOHN	N 36 06/04/89 \$692,608	A SCHIOLER 89-NE-219	\$142,608 01/05/89 \$692,608
MRS SYMPOSIUM ON CHEMICAL VAPOR DEPOSITION OF REFRACTORY METALS AND CERAMICS UNIV OF WESTERN ONTARIO	BALLANCE JOHN	N 12 12/04/89 \$5,000	A SCHIOLER 89-NE-227	\$5,000 01/10/89 \$5,000
A RESEARCH INITIATIVE FOR ADVANCED CARBON COMPOSITE AND RELATED MATERIALS PENNSYLVANIA STATE UNIVERSITY	TRESSLER RICHARD	N 36 12/04/89 \$2,652,887	SCHIOLER 89-NE-228	
URI CENTER FOR ALLOY DESIGN FOR ADVANCED STRUCTURAL CERAMICS UNIV OF MICHIGAN	CHEN I-WEI	N 36 19/04/89 \$2,269,340	SCHIOLER 89-NE-252	

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X-RAY TOMOGRAPHIC MICROSCOPY AND PHYSICALLY-BASED MODELING FOR IMPROVED CHEMICAL VAPOR INFILTRATION OF SILICON CARBIDE COMPOSITES GEORGIA TECH RESEARCH CORPORATION	STUART	N 36 19/04/89 \$1,000,569	SCHIDLER 89-NE-253	
DISPLACIVE TRANSFORMATIONS IN CERAMICS UNIV OF ILLINOIS	KRIVEN	N 36 19/04/89 \$2,096,312	SCHIDLER 89-NE-254	
THIN FILM SYNTHESIS BY THE TRIODE ION PLATING PROCESS LOUISIANA STATE UNIVERSITY	MELETIS	N 36 19/04/89 \$397,635	SCHIDLER 89-NE-256	
HIGH CONDUCTIVITY STRUCTURAL COMPOSITES UNIV OF NEBRASKA	DILLON	N 36 19/04/89 \$271,895	SCHIDLER 89-NE-257	
MRS SYMPOSIUM ON TAILORED INTERFACES IN COMPOSITE MATERIALS MATERIALS RESEARCH SOCIETY	BALLANCE	N 12 12/05/89 \$5,000	A SCHIDLER 89-NE-276	\$5,000 01/10/89 \$5,000
GROUP INTERNATIONAL TRAVEL TO VIITH WORLD ROUNO TABLE CONFERENCE ON SINTERING NEW YORK STATE COLLEGE OF CERAMICS	SPRIGGS	N 12 18/05/89 \$5,029	A SCHIDLER 89-NE-281	\$5,029 01/08/89 \$5,029
CENTER FOR THIN FILM STUDIES UNIV OF ARIZONA	MACLEOD	N 36 18/04/89 \$3,285,905	SCHLOSSBER 89-NE-248	
SUPERCONDUCTING DETECTOR FABRICATION PROGRAM UNIV OF ARIZONA	CERENIAK	N 24 18/04/89 \$322,000	WEINSTOCK 89-NE-238	
FABRICATION OF MICROWAVE WAVEGUIDE USING HIGH TC SUPERCONDUCTORS BRIMROSE CORP. OF AMERICA	TRIVEDI	N 06 24/04/89 \$76,835	A WEINSTOCK 89-NE-265	\$76,835 01/08/89 \$76,835

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FUNDAMENTAL RELAXATION TIMES OF ELEMENTARY EXCITATION AND QUASI PARTICLES IN NON-EQUILIBRIUM SUPERCONDUCTING STATES CITY UNIV OF NEW YORK RSCH FOUNDATION	ALFANC	N 36 03/05/89 \$481,554	D WEINSTOCK 89-NE-271	
ELECTRONIC FLUCTUATION AND MATERIALS PHYSICS	ASHCROFT	N 36 11/05/89 \$328,192	D WEINSTOCK 89-NE-275	
CORNELL UNIVERSITY	NEIL			
ENHANCED SUPERCONDUCTORS		N 24 12/05/89 \$499,955	A WEINSTOCK 89-NE-277	\$250,000 01/09/89 \$499,955
CHRONOS RESEARCH LABS INC.	CLSEN			
DEVELOPMENT OF SUPERCONDUCTIVE MICROPROBES FOR EDDY CURRENT EVALUATION OF MATERIALS PHYSICAL DYNAMIC INC	PODNEY	N 24 18/05/89 \$399,611	WEINSTOCK 89-NE-279	
THEORY OF CHIRAL SPIN LIQUIDS AND STRONGLY CORRELATED LATTICE FERMIONS UNIV OF PENNSYLVANIA	MELE	N 36 22/05/89 \$687,163	D WEINSTOCK 89-NE-283	
COMPUTER ORIENTED MULTICHANNEL DC-SQUID SYSTEM AND ITS APPLICATIONS IN A NEW TYPE OF FOCAL PLANE VISIBLE/IR DETECTORS APPLIED RESEARCH CORPORATION	DRUKIER	N 24 22/06/89 \$499,247	WEINSTOCK 89-NE-296	
IN-SITU FAULT DETECTION BY THE HYBRID RAY-MODE METHOD		R 24 26/06/89 \$150,179	WEINSTOCK 89-NE-303	
POLYTECHNIC INSTITUTE OF NEW YORK	FELSON			
THIN-FILM AIS SUPERCONDUCTORS, DIELECTRICS, AND INTERFACES		N 12 30/06/89 \$358,000	A WEINSTOCK 89-NE-308	\$358,000 01/10/89 \$1,158,000
LINCOLN LABORATORY/MIT	WITHERS			
PLANAR RESONANT TUNNELING FIELD-EFFECT TRANSISTORS		N 24 03/06/89 \$491,772	WITT 89-NE-216	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ANTONIADIS			
	DIMITRI			

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CHEMICAL VAPOR DEPOSITION OF THIN COPPER FILMS AND COPPER- CONTAINING MATERIALS USING CYCLOPENTADIENYL COPPER COMPLEXES IOANO UNIVERSITY	BITTERWOLF THOMAS	N 36 10/04/89 \$612,746	WITT 89-NE-221	
OPTICALLY CONTROLLED MICROWAVE STRUCTURES UNIV OF TEXAS	ITOH TATSUO	N 36 10/04/89 \$1,133,005	WITT 89-NE-222	
ORDERED SEMICONDUCTOR ALLOYS, HETEROSTRUCTURES AND 2DEG SYSTEMS: GROWTH, OPTICAL AND THEORETICAL STUDIES UNIV OF MISSOURI	CHANDRASEKHAR MEERA	N 36 11/04/89 \$907,897	WITT 89-NE-225	
NUMERICAL MODELING OF MULTI-TERMINAL QUANTUM WELL DEVICES-PHASE II SCIENTIFIC RESEARCH ASSOCIATES, INC.	GRUBIN HAROLD	N 24 11/04/89 \$495,989	WITT 89-NE-226	
SELECTIVE AREA EPITAXY OF COMPOUND SEMICONDUCTORS BY ORGANOMETALLIC C CHEMICAL VAPOR DEPOSITION UNIV OF MASSACHUSETTS	LAU KEI MAY	N 36 18/04/89 \$595,864	WITT 89-NE-234	
BETA SILICON CARBIDE: MICRO-DOSIMETRIC RADIATION RESPONSE OF BETA- SIC IN COMPARISON WITH GAAS AND SI IN BULK, IN CUSTOM MOS STRUCT CLARKSON UNIVERSITY	DICELLO JAMES	N 36 18/04/89 \$705,765	WITT 89-NE-235	
TIME AND SPATIAL RESOLVED BALLISTIC ELECTRON TRANSPORT IN METERO- EPITAXIAL SEMICONDUCTOR STRUCTURES CITY COLLEGE - CUNY	ALFANO ROBERT	N 36 18/04/89 \$1,117,903	WITT 89-NE-236	
TRANSPORT IN PETEROSTRUCTURES AND DEVICES IN MICROWAVE AND MILLIMETER-WAVE REGIMES UNIV OF MICHIGAN	MOURGU GERARD	N 36 20/04/89 \$3,489,050	WITT 89-NE-258	
INVESTIGATION OF GAAS EPITAXIAL LAYERS GROWN BY MOLECULAR BEAM EPITAXY AT LOW TEMPERATURE LINCOLN LABORATORY/MIT	CALAWA ARTHUR	N 30 28/04/89 \$345,115	WITT 89-NE-267	\$45,085 01/04/89 \$45,085

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DEGRADATION MECHANISMS IN COMPOUND SEMICONDUCTOR DEVICES AND
STRUCTURES
MATERIALS RESEARCH SOCIETY

INVESTIGATOR

BALLANCE JOHN

STRUCTURAL INVESTIGATIONS OF LOW-TEMPERATURE GROWN MBE GAAS LAYERS

UNIV OF CALIFORNIA

LILIENTAL WEBER

ZUZANNA

TYPE/MONTHS
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AMOUNT

N 12
01/06/89
\$3,000

N 36
23/06/89
\$442,864

INITIATE
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STATUS
PROGRAM MANAGER
PROPOSAL #

WITT
89-NE-289

WITT
89-NE-298

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LOCUS COERULEUS, VIGILANCE AND STRESS: BRAIN MECHANISMS OF ADAPTIVE BEHAVIORAL RESPONSIVENESS HANNEMANN UNIVERSITY	ASTON-JONES GARY	N 36 03/04/89 \$649,772	BERRY 89-NL-190	
4TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL ERGONOMICS UNIV OF TEXAS	WISSLER EUGENE	N 13 13/04/89 \$10,120	A BERRY 89-NL-198	\$10,120 15/09/89 \$10,120
MULTIPLE NEURON RECORDING IN THE HIPPOCAMPUS OF FREELY MOVING ANIM ALS (URI) WAKE FOREST UNIVERSITY	DEADWYLER SAM	N 36 17/04/89 \$403,740	BERRY 89-NL-199	
STUDIES OF COUPLING OF NON-LINEAR OSCILLATORS: INTERSEGMENTAL COOR DINATION IN THE VERTEBRATE LOCOMOTORY CENTRAL PATTERN GENERATOR UNIV OF CALIFORNIA	KAREN SIGVARDT	N 36 17/04/89 \$156,578	BERRY 89-NL-200	
PERFORMANCE MODIFICATION BY ATTENTIONAL DRUGS, THERMOREGULATORY AG ONISTS, AND MOLECULAR EFFECTS OF COLC STRESS AT A SINGLE BRAIN SIT UNIV OF MISSOURI	GARTH RESCH	N 36 17/04/89 \$337,259	BERRY 89-NL-201	
EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF RANDOM NETWORK DYNA MICS UNIV OF NORTH TEXAS	GROSS	N 36 17/04/89 \$631,321	BERRY 89-NL-202	
CIRCADIAN MORPHOCYCCLICITY OF THE HUMAN BRAIN UNIV OF CALIFORNIA	BEATTY JACKSON	N 36 17/04/89 \$468,655	BERRY 89-NL-203	
BEHAVIORAL MECHANISMS OF THALAMIC MODULATION CURING SHIFTS IN ATTEN TION UNIV OF MICHIGAN	MORRIS THOMAS	N 60 17/04/89 \$608,528	BERRY 89-NL-204	
CORTICAL MECHANISMS OF ATTENTION, DISCRIMINATION, AND MOTOR RESPON SE TO SOMESTHETIC STIMULI HANNEMANN UNIVERSITY	CHAPIN JOHN	N 36 17/04/89 \$530,691	BERRY 89-NL-205	

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NEOSTRIATAL NEURONAL ACTIVITY AND BEHAVIOR UNIV OF TEXAS	WOODWARD DONALD	N 36 17/04/89 \$441,344	BERRY 89-NL-206	
MODELING CORTICAL CIRCUITRY ON A MASSIVELY PARALLEL SUPERCOMPUTER UNIV OF TEXAS	NASH PATRICK	N 36 18/04/89 \$461,714	BERRY 89-NL-214	
MECHANISM OF REGULATION OF CATECHOLAMINE BIOSYNTHESIS IN STRESS NEW YORK MEDICAL COLLEGE	SABBAN ESTHER	N 36 18/04/89 \$484,731	BERRY 89-NL-215	
CHARACTERIZATION OF BRAINSTEM CHOLINERGIC NEURONS (CHS-6) EXTRACELLULAR ACTIVITY IN RELATION TO AROUSAL AND SENSORY STIMULATION UNIV OF DELAWARE	GRANT STEVEN	N 36 18/04/89 \$215,673	BERRY 89-NL-216	
REVERSE ENGINEERING BIOLOGICAL NEURAL NETWORKS: MODELS AND EXPERIMENTAL SETUP UNIV OF FLORIDA	PRINCIPE JOSE	N 36 18/04/89 \$820,541	BERRY 89-NL-217	
THE ORGANIZATION OF THE SUPRACHIASMATIC CIRCADIAN PACEMAKER OF THE RAT AND ITS REGULATION BY NEUROTRANSMITTERS AND MODULATORS UNIV OF ILLINOIS	GILLETTE EDWARD	N 36 18/04/89 \$667,619	BERRY 89-NL-218	
SOMATOTROPES AND STRESS: ANALYSIS OF SOMATOTROPIC HORMONE PROCESSING CAPABILITY USING A TRANSFECTED PEPTIDE HORMONE PRECURSOR NEW YORK MEDICAL COLLEGE	CULLEN EDWARD	N 36 18/04/89 \$462,151	BERRY 89-NL-219	
EFFECT OF FOOD INGREDIENTS ON NEUROCHEMICALS THAT MODULATE NEURONAL RESPONSIVENESS AND BEHAVIORAL REACTIVITY PRINCETON UNIVERSITY	HOEBEL BARTLEY	N 60 18/04/89 \$968,400	BERRY 89-NL-220	
ROLE OF LOCUS COERULEUS ACTIVITY IN REGULATION OF BEHAVIORAL RESPONSIVENESS HANNEMANN UNIVERSITY	ASTON-JONES GARY	N 06 19/04/89 \$32,579	BERRY 89-NL-223	\$32,421 89/01/05 \$32,421

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TESTS OF A MODEL OF SENSATION MATCHING FOR SIMPLE AND COMPLEX STIM ULI UNIV OF MARYLAND	PENNER MERRILYNN	N 36 03/05/89 \$243,419	BERRY 89-NL-248	
ANALYSES OF THE HIPPOCAMPAL SYSTEM IN ASSOCIATIVE LEARNING: NEUROB BEHAVIORAL, CELLULAR, AND MOLECULAR, APPROACHES NORTHWESTERN UNIVERSITY	DISTERHOFT JOHN	N 36 04/05/89 \$777,648	BERRY 89-NL-250	
GLYCINE-MIMETICS AS MODULATORS OF MEMORY UNIV OF PITTSBURGH	KOZIKOWSKI ALAN	N 36 04/05/89 \$567,064	BERRY 89-NL-251	
PRESYNAPTIC MODULATION OF THE HIPPOCAMPAL MOSSY FIBER SYNAPSE EAST CAROLINA UNIVERSITY	TERRIAN DAVID	N 36 07/06/89 \$666,620	A BERRY 89-NL-260	\$285,382 15/09/89 \$661,620
STRATEGIES TO SUSTAIN AND ENHANCE PERFORMANCE IN STRESSFUL ENVIRONMENTS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LIEBERMAN HARRIS	R 36 07/06/89 \$242,260	BERRY 89-NL-263	
LOCATION OF THE PARTS OF AN EXPERIMENTAL-PSYCHOLOGY MODEL IN RAT B RAIN UNIVERSITY OF CALIFORNIA	ROBERTS SERENA	N 36 14/06/89 \$326,966	BERRY 89-NL-276	
CENTRAL & PERIPHERAL SIGNIFICANCE OF NEUROPEPTIDE Y NEW YORK ACADEMY OF SCIENCES	KOENIG JAMES	N 12 23/06/89 \$10,000	BERRY 89-NL-279	
TEMPORAL CONTROL OF DRUG DELIVERY NEW YORK ACADEMY OF SCIENCES	HRUSPESKY WILLIAM	N 12 23/06/89 \$10,000	BERRY 89-NL-280	
SUBSTANCE P AND RELATED PEPTIDES: CELLULAR AND MOLECULAR PHYSIOLO GY NEW YORK ACADEMY OF SCIENCES	LEEMAN SUSAN	N 12 23/06/89 \$10,000	BERRY 89-NL-281	

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FRESYNAPTIC RECEPTORS & QUESTIONS OF AUTOREGULATION OF NEUROTRANSMITTER RELEASE NEW YORK ACADEMY OF SCIENCES	KALSNER STANLEY	N 12 23/06/89 \$10,000	BERRY 89-NL-292	
CUMULATIVE EFFECT OF REPEATED BRIEF CEREBRAL ISCHEMIA UNIV OF ALABAMA	HALSEY JAMES	N 12 07/04/89 \$61,581	CERVENY 89-NL-195	
ASM ANNUAL MEETING SUPPORT AMERICAN SOCIETY FOR MICROBIOLOGY	KAPLAN ALAN	N 12 13/04/89 \$7,000	A CERVENY 89-NL-197	
STUDY OF INTERACTION OF PREFERENTIAL WATER FLOW AND BIODEGRADATION TO INCREASE EFFECTIVENESS OF BIOREMEDIATION IN HETEROGENEOUS SOILS CORNELL UNIVERSITY	TANMO STEENHUIS	N 36 19/04/89 \$161,730	CERVENY 89-NL-224	
DEVELOPMENT OF AN IMPROVED GROUP CONTRIBUTION METHOD FOR ESTIMATION OF PERCUTANEOUS PENETRATION BY TOXIC CHEMICALS COLORADO SCHOOL OF MINES	BUNGE ANNETTE	N 36 19/04/89 \$367,091	CERVENY 89-NL-225	
PANCREATIC TOXICITY OF GLUTATHIONE AND CYSTEINE S-CONJUGATES UNIV OF ROCHESTER	ANDERS M. J. J.	N 36 19/04/89 \$470,286	CERVENY 89-NL-226	
DEVELOPMENT OF A MODEL TO PREDICT PESTICIDE RESIDUE TRANSFER FROM FOLIAGE TO BATTLE DRESS UNIFORM FABRICS LOUISIANA STATE UNIVERSITY	CLUC RINN	N 36 19/04/89 \$224,443	CERVENY 89-NL-227	
NEURCTOIC EFFECTS OF ALUMINUM HEBREW UNIVERSITY	MEIRI MALINA	N 36 19/04/89 \$98,448	CERVENY 89-NL-228	
INVESTIGATIONS OF REACTIVE AND NONREACTIVE SOLUTE TRANSPORT THROUGH CHEMICALLY AND PHYSICALLY NONHOMOGENEOUS POROUS MEDIA UNIV OF FLORIDA	KIRK MATFIELD	N 36 19/04/89 \$385,046	CERVENY 89-NL-229	

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ENDANGERED/TREATED PLANT RESPONSE TO HERBICIDES UNIV OF FLORIDA	BEWICK THOMAS	N 36 19/04/89 \$297,095	CERVENY 89-NL-230	
AQUATIC ANIMALS AS SENTINELS FOR REDOX-ACTIVE GENOTOXINS DUKE UNIVERSITY	CI GIULIC RICHARD	N 36 20/04/89 \$234,382	CERVENY 89-NL-231	
BIODEGRADATION OF JET FUEL-4 (JP-4) IN SEQUENCING BATCH REACTORS UTAH STATE UNIVERSITY	BUMPUS JOHN	N 36 20/04/89 \$311,527	CERVENY 89-NL-232	
THRESHOLD OF INJURY TO RETINAL CIRCULATION INDUCED BY CHRONIC RF RADIATION UNIV OF TEXAS	FARRAR ROGER	N 36 20/04/89 \$297,634	CERVENY 89-NL-233	
GENETIC ENGINEERING TO EXPAND THE CATABOLIC PATHWAYS OF MICROORGANISMS UNIV OF FLORIDA	CHAUCHRY RASUL	N 24 20/04/89 \$166,942	CERVENY 89-NL-234	
EFFECTS OF CHEMICAL & MICROBIOLOGICAL DEGRADATION KINETICS UPON THE TRANSPORT OF HYDRAZINE & UDMH WITH UNSTEADY WATER FLOW IN UNSATURATED POLYMER UNIV OF FLORIDA	J. H. H. H. STREET	N 36 20/04/89 \$228,160	CERVENY 89-NL-235	
THE MOLECULAR ANATOMY OF PFOA HEPATOTOXICITY AS STUDIED BY TWO-DIMENSIONAL ELECTROPHORESIS INDIANA UNIVERSITY-PLUMUE UNIV AT INCFLS	WITZMANN FRANK	N 36 20/04/89 \$288,044	CERVENY 89-NL-236	
EFFECT OF HYDROPHOBIC MOLECULES ON MITOCHONDRIA AND MITOCHONDRIAL PROTEINS OKLAHOMA STATE UNIVERSITY	HARMON JAMES	N 12 28/04/89 \$160,534	A CERVENY 89-NL-243	\$61,000 31/07/89 \$61,000
THE EXISTING AND POTENTIAL VALUE OF BIOMARKERS IN EVALUATING EXPOSURE AND ENVIRONMENTAL EFFECTS OF TOXIC CHEMICALS SOCIETY OF ENVIRON. TOXICOLOGY & CHEM.	HUGGETT ROBERT	N 12 16/05/89 \$10,000	A CERVENY 89-NL-252	\$15,000 15/07/89 \$15,000

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PSEUDOMONAS: PATHOGENICITY, BIOTRANSFORMATIONS, AND EMERGING BIOTECHNOLOGY AMERICAN SOCIETY FOR MICROBIOLOGY	SILVER	N 12 16/05/89 \$15,000	A CERVENY 89-NL-253	\$15,000 09/07/89 \$15,000
NMR CHARACTERIZATION OF PRODUCTS FORMED IN DIAZOTIZING MIXTURES OF LUMINOL AND 3-AMINO-L-TYROSINE SOUTHEASTERN OKLAHOMA ST U-PHYS SCI CFT	BRIGHT	N 12 24/05/89 \$38,875	A CERVENY 89-NL-258	\$38,875 15/07/89 \$38,875
HQ AFESC REQUIREMENTS FOR LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY AIR FORCE ENGINEERING & SERVICES CENTER	CORNETTE	N 03 06/06/89 \$40,000	A CERVENY 89-NL-259	\$40,000 01/07/89 \$40,000
IN SITU BIODEGRADATION OF NITROAROMATIC COMPOUNDS IN SOIL IOAHC UNIVERSITY	CRAWFORD	N 60 12/06/89 \$600,200	CERVENY 89-NL-265	
INDUCTION OF ORGANOPHOSPHORUS BINDING PROTEINS OREGON STATE UNIVERSITY	CURTIS	N 36 12/06/89 \$317,765	CERVENY 89-NL-266	
DEVELOPMENT OF METHODS FOR DETECTION OF LIPOID PEROXIDATION PRODUCTS IN HUMAN TISSUES GENERATED BY ENVIRONMENTAL TOXINS MONTANA STATE UNIVERSITY	G.M. VAN KUIJK	N 36 13/06/89 \$396,963	CERVENY 89-NL-267	
CELLULAR MECHANISM OF TURNOVER OF THE STRESS INDUCED PROTEIN HSP70 UNIV OF WYOMING	PETERSEN	N 24 13/06/89 \$184,393	CERVENY 89-NL-268	
MOLECULAR MECHANISM OF DIOXIN ACTION: MOLECULAR CLONING OF THE AH RECEPTOR USING A DNA RECOGNITION SITE PRIMER MICHIGAN STATE UNIVERSITY	DENISON	N 12 13/06/89 \$80,000	CERVENY 89-NL-269	
DOSE DEPENDENT EFFECTS OF CHROMATE ON CULTURED CELLS VANDERBILT UNIVERSITY	BRIGGS	N 36 13/06/89 \$422,679	CERVENY 89-NL-270	

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BIOENVIRONMENTAL HAZARDS AND DNA REPAIR WAYNE STATE UNIVERSITY	SMITH CENNIS	N 12 13/06/89 \$75,044	CERVENY 89-NL-271	
INVESTIGATION OF THE HEPATOTOXIC AND IMMUNOTOXIC EFFECTS OF THE PE ROXISOME PROLIFERATOR PERFLUOROCARCINIC ACID CHIO STATE UNIVERSITY	TARR MELINDA	N 36 13/06/89 \$344,628	CERVENY 89-NL-272	
METABOLIC ACTIVATION/DETOXICATION MECHANISMS IN HUMAN HEF G2 CELLS UNIV OF ALABAMA	LAMARTINIERE CORAL	N 36 13/06/89 \$356,813	CERVENY 89-NL-273	
A COMPARATIVE STUDY REGARDING THE ASSOCIATION OF ALPHA-2L GLOBULIN WITH THE NEPHROTOXIC OF CERTAIN PETROLEUM-BASED AIR FORCE FUELS UNIV OF ILLINOIS	EURELL THOMAS	R 36 13/06/89 \$211,041	CERVENY 89-NL-274	
INTERACTIONS AMONG DRINKING AND GROUND WATER CONTAMINANTS ON RENAL AND HEPATIC FUNCTION UNIV OF NEBRASKA MEDICAL CENTER	BERNET WILLIAM	R 48 13/06/89 \$974,994	CERVENY 89-NL-275	
NEUROPHYSIOLOGICAL IMPLEMENTATION OF A SCHEME FOR VISUAL SELECTIVE ATTENTION MRC APPLIED PSYCHOLOGY UNIT	DUNCAN JONNK,	N 12 07/04/89 \$51,521	A FREGLY 89-NL-192	\$51,121 01/10/89 \$51,121
J/OM AND AI APPROACHES TO EXPERT JUDGMENT UNDER UNCERTAINTY UNIV OF COLORADO	BRADSHAW GARY	N 36 18/04/89 \$910,242	D FREGLY 89-NL-211	
MEASUREMENT OF FACIAL EXPRESSION UNIV OF FLORIDA	LECNARD CHRISTIANA	N 36 18/04/89 \$321,712	D FREGLY 89-NL-212	
FINDING STRUCTURE IN TIME UNIV OF CALIFORNIA, SAN DIEGO	ELMAN JEFFREY	N 36 19/04/89 \$511,535	D FREGLY 89-NL-213	

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FORMS OF MEMORY FOR REPRESENTATIONS OF VISUAL OBJECTS UNIV OF ARIZONA	SCHACTER CANIEL	N 36 18/04/89 \$603,926	FREGLY 89-NL-221	
COGNITION AND THE BRAIN: A CONTINUATION OF THE UNIVERSITY RESEARCH INITIATIVE AT NEW YORK UNIVERSITY NEW YORK UNIVERSITY	KAUFMAN LLOYD	R 36 18/04/89 \$1,002,099	FREGLY 89-NL-222	
COMPARATIVE ANALYTICAL STUDY OF EVOKED AND EVENT RELATED POTENTIAL S AS CORRELATES OF COGNITIVE PROCESSES UNIV OF CALIFORNIA	BULLOCK THEODORE	N 06 26/04/89 \$5,678	A FREGLY 89-NL-241	\$5,678 01/08/89 \$5,678
CONFERENCE ON THE FUNCTIONAL IMAGING OF THE HUMAN NERVOUS SYSTEM JOHNS HOPKINS UNIVERSITY	MCKNANN GUY	N 07 27/04/89 \$5,665	A FREGLY 89-NL-242	\$5,665 01/07/89 \$5,665
TOWARD A THEORETICAL BASIS FOR KNOWLEDGE STRUCTURES IN SKILLED COG NITIVE PERFORMANCE AND THEIR APPLICATION TO INTELLIGENT SYSTEMS BRIGHT STATE UNIVERSITY	KOUBEK RICHARD	N 36 03/05/89 \$334,189	FREGLY 89-NL-245	
THE INFLUENCE OF METACOGNITIVE KNOWLEDGE AND APTITUDE ON PROBLEM S OLVING UNIV OF COLORADO	SWANSON MICHAEL	N 24 04/05/89 \$115,145	FREGLY 89-NL-249	
THE CENTRAL EXECUTIVE COMPONENT OF WORKING MEMORY PRC APLIED PSYCHOLOGY UNIT	BADDELEY ALAN	N 36 23/05/89 \$169,328	FREGLY 89-NL-256	
ATTENTION IN DYNAMIC TOUCHING UNIV OF CONNECTICUT	TURVEY MICHAEL	N 36 24/05/89 \$375,887	FREGLY 89-NL-257	
AN ELECTROPHYSIOLOGICAL APPROACH TO THE ROLE OF ATTENTION IN LANGU AGE PROCESSING UNIV OF CALIFORNIA, SAN DIEGO	KUTAS MARTA	N 36 07/06/89 \$404,996	FREGLY 89-NL-261	

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THE COGNITIVE, PERCEPTUAL, AND NEURAL BASES OF SKILLED PERFORMANCE BOSTON UNIVERSITY	GROSSBERG STEPHEN	R 36 17/04/89 \$2,630,063	TANGNEY 89-NL-207	
THE EFFECTS OF GRAVITY INVERSION AND TARGET FIXATION ON VISION UNIV OF MISSOURI	BASSI CARL	N 36 17/04/89 \$198,137	D TANGNEY 89-NL-208	
PSYCHOPHYSICAL ANALYSES OF PERCEPTUAL REPRESENTATIONS UNIV OF MINNESOTA	BIEDERMAN IRVING	N 36 17/04/89 \$1,151,787	TANGNEY 89-NL-209	
INSTITUTE FOR THE STUDY OF HUMAN CAPABILITIES INDIANA UNIVERSITY RESEARCH FOUNDATION	WATSON CHARLES	R 36 17/04/89 \$1,420,111	TANGNEY 89-NL-210	
PROCESS MODELS OF SPEECH PERCEPTION--ACCUMULATIONS TO VARIABILITY UNIV OF COLORADO	BELL ALAN	N 36 20/04/89 \$535,749	D TANGNEY 89-NL-237	
NEURAL BASIS OF INTELLIGENT OBJECT RECOGNITION UNIV OF CALIFORNIA	BAYLIS ROBERT	N 36 20/04/89 \$471,937	D TANGNEY 89-NL-238	
DISRUPTION OF THE PRECEDENCE EFFECT BY NCISE UNIV OF MASSACHUSETTS	FREYMAN RICHARD	N 36 20/04/89 \$141,535	TANGNEY 89-NL-239	
PARAMETRIC STUDY OF DIFFUSION-ENHANCEMENT NETWORKS FOR SPATIO-TEMPORAL GROUPING IN REAL-TIME ARTIFICIAL VISION LINCOLN LABORATORY/MIT	WAXMAN ALLEN	N 36 25/04/89 \$276,320	A TANGNEY 89-NL-240	\$21,545 01/07/89 \$297,865
SPATIAL AND TEMPORAL INTERPOLATION IN VISUAL OBJECT PERCEPTION SWATHMORE COLLEGE	KELLMAN PHILIP	N 48 03/05/89 \$689,312	TANGNEY 89-NL-244	

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THE ANALYSIS OF OPTIC FLOW WITHOUT LOCALLY SMOOTH VELOCITY	ANDERSEN	N 36 03/05/89 \$271,976	TANGNEY 89-NL-246	
UNIV OF ILLINOIS	GEORGE			
FLEXIBILITY IN COMPLEX LEARNING AND COGNITIVE PERFORMANCE	SNOW	N 07 03/05/89 \$24,914	A TANGNEY 89-NL-247	\$24,914 01/09/89 \$24,914
STANFORD UNIVERSITY	RICHARD			
AUDITORY-ACOUSTIC BASIS OF CONSONANT PERCEPTION	MILLER	R 60 23/05/89 \$1,413,107	TANGNEY 89-NL-254	
CENTRAL INSTITUTE FOR THE DEAF	JAMES			
PSYCHOPHYSICAL MODELS TO PREDICT DEPTH IN NATURAL SCENES BASED ON MOTION PARALLAX JET PROPULSION LABORATORY	LANTON	N 36 23/05/89 \$623,000	TANGNEY 89-NL-255	
ROLES OF VISUAL AND AUDITORY FEEDBACK IN SPATIAL ORIENTATION	WHITE	N 36 07/06/89 \$316,423	TANGNEY 89-NL-262	
UNIV OF FLORIDA	KEITH			
DEVELOPMENT OF NEURAL NETWORK ARCHITECTURES FOR SELF-ORGANIZING PA TTER RECOGNITION AND ROBOTICS	GROSSBERG	N 28 23/06/89 \$961,663	A TANGNEY 89-NL-277	\$200,000 01/10/89 \$400,000
BOSTON UNIVERSITY				
MULTIDISCIPLINARY STUDIES OF INTEGRATED NEURAL NETWORK SYSTEMS	PEARSON	N 28 23/06/89 \$1,105,906	A TANGNEY 89-NL-278	\$250,000 01/10/89 \$500,000
DAVID SARNOFF RESEARCH CENTER	JOHN			
SUPER AUDITORY LOCALIZATION FOR IMPROVED HUMAN-MACHINE INTERFACES	DURLACH	N 60 23/06/89 \$1,501,433	TANGNEY 89-NL-283	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	NATHANIEL			

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NONLINEAR REAL TIME FILTERING: THEORY AND NUMERICS		N 24 06/04/89 \$106,926	BAROUCH 89-NM-482	
IOWA STATE UNIVERSITY DEPARTMENT OF MATH	KLIEMANN			
MULTIVARIATE MULTISCALE ANALYSIS		N 06 06/04/89 \$29,888	A BAROUCH 89-NM-483	\$29,468 15/09/89 \$29,468
UNIV OF CONNECTICUT	MACYCH			
OPTIMUM SELECTION PROCEDURES IN MULTI-STAGE SCREENING, RELIABILITY , AND TIME SERIES ANALYSIS PROBLEMS		N 24 06/04/89 \$35,321	BAROUCH 89-NM-484	
UNIV OF ILLINOIS	MIESCKE			
OUTLIER RESISTANT STATISTICAL OPERATION IN SPACE-TIME PROCESSES		N 24 06/04/89 \$115,200	BAROUCH 89-NM-486	
UNIV OF VIRGINIA	KAZAKOS			
STOCHASTIC MODELS FOR COMPUTING WEAPON SYSTEM AVAILABILITY		N 36 14/04/89 \$266,676	BAROUCH 89-NM-503	
UNIV OF DAYTON	EBELING			
HEURISTIC FOR STOCHASTIC SCHEDULING AND THE CONTROL OF QUEUEING NETWORKS		N 36 17/04/89 \$260,320	BAROUCH 89-NM-518	
GEORGIA INSTITUTE OF TECH	WEISS			
TECHNIQUES FOR THE PERCEPTION OF DENSITY FUNCTIONS IN HIGHER DIMENSIONS		N 36 19/04/89 \$891,055	BAROUCH 89-NM-524	
RICE UNIVERSITY	THOMPSON			
1990 IEEE INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY		N 12 24/04/89 \$6,000	BAROUCH 89-NM-545	
INSTITUTE OF ELECTRL & ELECTRONIC ENG INC	MILSTEIN			
SYMPOSIUM ON APPLIED PROBABILITY - 1989		N 08 28/04/89 \$20,000	BAROUCH 89-NM-548	
INSTITUTE OF MATHEMATICAL STATISTICS	PRABHU			
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WAVELET ANALYSIS AND APPLICATIONS YALE UNIVERSITY	COIFMAN R.	N 36 05/05/89 \$157,710	A BAROUCH 89-NM-558	\$50,001 01/10/89 \$157,452
STABILITY AND INFERENCE FOR SOME MODELS IN RELIABILITY UNIV OF CALIFORNIA	JAMMALAMADAKA S.	N 24 05/05/89 \$203,205	BAROUCH 89-NM-559	
DEVELOPMENT AND ANALYSIS OF ARMA PARAMETER ESTIMATION SCHEMES IN THE PRESENCE OF NOISE YALE UNIVERSITY	NEHORAI ARYE	R 36 05/05/89 \$258,993	BAROUCH 89-NM-560	
BEARING ESTIMATION IN UNKNOWN COLORED BACKGROUND NOISE UNIV OF MINNESOTA	TEWFIK A.	N 18 05/05/89 \$92,266	BAROUCH 89-NM-561	
RESEARCH IN STATISTICAL INFERENCE TEXAS A AND M UNIVERSITY	CARRCLL R.	N 33 05/05/89 \$190,592	BAROUCH 89-NM-562	
A BOCLEAN ALGEBRA METHOD TO GENERATE ALL SPANNING TREES AND ITS APPLICATION TO THE ALL-TERMINAL RELIABILITY PROBLEM MONTANA STATE UNIVERSITY	YERGEN YOC	N 24 05/05/89 \$78,565	BAROUCH 89-NM-563	
ROBUST METHODS AND INFLUENCE ANALYSIS FOR CENSORED ACCELERATED LIFE TEST DATA PENNSYLVANIA STATE UNIVERSITY	AKRITAS MICHAEL	N 36 05/05/89 \$170,169	BAROUCH 89-NM-567	
SECOND WORLD CONGRESS, UPPSALA, SWEDAN INSTITUTE OF MATHEMATICAL STATISTICS	BILLARD LYNNE	N 12 12/05/89 \$38,400	BAROUCH 89-NM-576	
RELIABILITY ASSESSMENT FOR SYSTEMS SUBJECT TO MAINTENANCE & REPAIR CITY COLLEGE - CUNY	BROWN MARK	R 24 12/05/89 \$126,606	BAROUCH 89-NM-578	

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PROCESS CAPABILITY INDICES AND RELATED INFERENCES				
UNIV OF TEXAS	CHOU	N 33 16/05/89 \$65,191	BAROUCH 89-NM-586	
DESIGN OF SYSTEM BASED COMPONENT TESTS				
UNIV OF PITTSBURGH	MAZUMCAR	N 36 24/05/89 \$121,560	BAROUCH 89-NM-595	
WAVELET LOCAL EXTREMA APPLIED TO IMAGE PROCESSING				
NEW YORK UNIVERSITY	MALLAT	N 36 06/06/89 \$184,568	A BAROUCH 89-NM-613	\$35,000 01/10/89 \$170,000
SYSTEM RELIABILITY ANALYSIS AND INFERENCE				
UNIV OF CALIFORNIA	BARLOW	R 12 08/06/89 \$106,203	BAROUCH 89-NM-615	
DEMONSTRATE PERFORMANCE OF WAVELETS FOR DATA COMPRESSION IN SELECTED MILITARY APPLICATIONS				
AWARE, INC.	RESNIKOFF	N 04 14/06/89 \$54,414	A BAROUCH 89-NM-626	\$54,414 01/09/89 \$54,414
BOOTSTRAP METHODS FOR RELATIVE RISK RATIO UNDER CENSORING, MEAN DEVIATIONS AND OTHER RELATED STATISTICS				
PENNSYLVANIA STATE UNIVERSITY	BABU	N 36 15/06/89 \$128,756	BAROUCH 89-NM-628	
APPLICATION OF GABOR REPRESENTATION TO MILITARY PROBLEMS				
ATLANTIC AEROSPACE ELECTRONICS CORP.	ORR	N 36 16/06/89 \$1,495,298	BAROUCH 89-NM-634	
RESPONSE SURFACE EXPERIMENTAL DESIGN FOR IMPROVED QUALITY AND PRODUCTIVITY				
VIRGINIA POLYTECHNIC INST & STATE UNIV	MYERS	N 36 27/06/89 \$226,046	BAROUCH 89-NM-643	
FEATURE ORIENTED SIGNAL PROCESSING USING NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS AND WAVELET ANALYSIS				
COGNITECH INC	CSHER	N 36 29/06/89 \$160,000	A BAROUCH 89-NM-648	\$40,000 01/11/89 \$160,000

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OPTIMAL DECENTRALIZED ROUTING CONTROL FOR QUEUES UNIV OF MICHIGAN	TENENETZIS D.	N 24 06/04/89 \$461,257	CROWLEY 89-NM-485	
MATHEMATICAL TECHNIQUES FOR SYSTEM REALIZATION AND IDENTIFICATION UNIV OF FLORIDA	KALMAN R.E.	R 36 06/04/89 \$224,826	CROWLEY 89-NM-487	
ON-LINE MONITORING OF MACHINING PARAMETERS AND REALTIME WORKPLACE INTERROGATION FOR ADAPTIVE CONTROL AND PROCESS OPTIMIZATION PENNSYLVANIA STATE UNIVERSITY	RUUD C	N 24 17/04/89 \$427,587	CROWLEY 89-NM-508	
AN EMBEDDING PROBLEM WITH APPLICATION TO NEURAL NETWORKS HAMPTON UNIVERSITY	PRUEITT PAUL	N 24 17/04/89 \$179,826	CROWLEY 89-NM-521	
DYNAMIC RESPONSE AND STABILITY OF FLEXIBLE STRUCTURES IN THE PRESENCE OF EXTERNAL STIMULI TEMPLE UNIVERSITY SCHOOL OF MEDICINE	BISWAS SAROJ	N 36 17/04/89 \$291,977	CROWLEY 89-NM-523	
CONTROL OF NONLINEAR DISTRIBUTED PARAMETER SYSTEMS: FEEDBACK DESIGN AND COMPUTATION WASHINGTON UNIVERSITY	BYRNES CHRISTOPHER	N 36 19/04/89 \$1,476,433	CROWLEY 89-NM-525	
DESIGN OPTIMIZATION OF SYSTEMS GOVERNED BY PARTIAL DIFFERENTIAL EQUATIONS ECODYNAMICS RESEARCH ASSOCIATION INC	ROACHE PATRICK	N 24 19/04/89 \$329,583	CROWLEY 89-NM-526	
CONTROL OF COMPLEX MULTIBODY SPACECRAFT UNIV OF MARYLAND	KRISHNAPRASAD P.	N 36 19/04/89 \$1,336,376	CROWLEY 89-NM-529	
AUTOMATIC FAULT DETECTING CONTROL SYSTEMS FOR FLEXIBLE SPACE STRUCTURES TEMPLE UNIVERSITY SCHOOL OF MEDICINE	SENDAULA H.	N 24 19/04/89 \$248,179	CROWLEY 89-NM-530	

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NONSMOOTH OPTIMIZATION ALGORITHMS, SYSTEM THEORY AND SOFTWARE TOOLS UNIV OF CALIFORNIA	POLAK	N 36 24/04/89 \$518,296	A CROWLEY 89-NM-543	\$139,372 01/10/89 \$428,571
PERFORMANCE ROBUSTNESS OF REDUCED-COMPLEXITY UNIV OF CINCINNATI	LAWRENCE	N 36 28/04/89 \$197,291	CROWLEY 89-NM-550	
ROBUST CONTROLLER DESIGN FOR SYSTEM WITH BOUNDED UNCERTAINTY: A DYNAMIC GAMES APPROACH UNIV OF ILLINOIS	BASAR	N 36 28/04/89 \$235,890	CROWLEY 89-NM-553	
OPERATIONAL METHODS IN CONTROL THEORY MICHIGAN STATE UNIVERSITY	MACCLUER	N 12 28/04/89 \$53,063	CROWLEY 89-NM-554	
ANALYSIS, ESTIMATION, AND CONTROL FOR PERTURBED AND SINGULAR SYSTEMS AND FOR SYSTEMS SUBJECT TO DISCRETE EVENTS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	WILLSKY	R 24 05/05/89 \$195,437	A CROWLEY 89-NM-565	\$87,415 01/10/89 \$179,869
ANALYTICAL FOUNDATIONS OF GAIN SCHEDULLING JOHNS HOPKINS UNIVERSITY	RUGH	N 36 16/05/89 \$307,389	CROWLEY 89-NM-587	
LARGE-SCALE DISCRETE-EVENT SYSTEMS: THEORY ALGORITHMS, AND CASE STUDIES UNIV OF MICHIGAN	LAFORTUNE	N 36 17/05/89 \$265,651	CROWLEY 89-NM-590	
PROBLEMS IN DETERMINISTIC AND STOCHASTIC OPTIMAL CONTROL: VISCOSSITY METHODS AND SUBBOTIN'S EQUATIONS LOYOLA UNIVERSITY	BARREN	R 24 15/06/89 \$87,172	CROWLEY 89-NM-527	
INVERSE AND OPTIMIZATION PROBLEMS FOR LOW FREQUENCY DATA RENSELAER POLYTECHNIC INSTITUTE	MCLAGHLIN	N 12 15/06/89 \$44,900	CROWLEY 89-NM-629	

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OPTIMAL DESIGN AND CONTROL OF DISTRIBUTED PARAMETER SYSTEMS UNIV OF MARYLAND BALTIMORE COUNTY	SEIDMAN THOMAS	N 36 15/06/89 \$321,352	CROWLEY 89-NM-630	
ASYMPTOTICALLY EFFICIENT ADAPTIVE CONTROL OF STOCHASTIC SYSTEMS UNIV OF MICHIGAN	TENENETZIS DEMOSTHENIS	N 24 20/06/89 \$110,716	CROWLEY 89-NM-636	
A THEORY OF CONTROL FOR FLEXIBLE SPACE STRUCTURES TEXAS TECH UNIVERSITY	EMRE EROL	N 24 27/06/89 \$103,730	CROWLEY 89-NM-645	
ASYMPTOTICALLY EFFICIENT ADAPTIVE CONTROL OF STOCHASTIC SYSTEMS CORNELL UNIVERSITY	ANANTHARAM VENKAT	N 24 27/06/89 \$103,684	CROWLEY 89-NM-646	
DEVELOPMENT OF AN INTERACTIVE DECISION SUPPORT SYSTEM FOR DESIGN OF INSPECTION/TEST STRATEGIES MISSISSIPPI STATE UNIVERSITY	SHYER WILLIAM	N 12 12/04/89 \$105,746	GLASSMAN 89-NM-492	
ALGORITHMS AND SOFTWARE FOR SEQUENTIAL AND PARALLEL OPTIMIZATION UNIV OF COLORADO	SCHNABEL R. SCHNABEL	R 36 13/04/89 \$434,868	GLASSMAN 89-NM-496	
PARALLEL ALGORITHMS FOR OPTIMIZATION PROBLEMS JOHNS HOPKINS UNIVERSITY	MEYER GERARD	N 24 13/04/89 \$170,492	GLASSMAN 89-NM-497	
NEW LINEAR PROGRAMMING-BASED SOLUTION STRATEGIES FOR THE QUADRATIC ASSIGNMENT PROBLEM CLEMSON UNIVERSITY	ADAMS WARREN	N 24 13/04/89 \$115,706	GLASSMAN 89-NM-500	
RECURSIVELY CONSTRUCTED GRAPH CLASSES: DECOMPOSITION AND LINEAR TIME ALGORITHM GENERATION GEORGIA INSTITUTE OF TECH	PARKER R.	N 24 13/04/89 \$247,059	GLASSMAN 89-NM-501	

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DEVELOPMENT OF FEATURE-BASED CONSTRAINT PROGRAMMING FOR DESIGN TO PRODUCTION HAMPTON UNIVERSITY	RAM	N 36 14/04/89 \$322,150	GLASSMAN 89-NM-505	
PARALLEL ALGORITHMS FOR PERFECT GRAPHS CLD DOMINION UNIVERSITY	CLARIU STEPHEN	N 24 14/04/89 \$70,459	GLASSMAN 89-NM-507	
APPLIED DISCRETE MATHEMATICS: RESEARCH AND APPLICATIONS ENVIRONMENTS RENSSELAER POLYTECHNIC INSTITUTE	ECKER JOSEPH	N 36 17/04/89 \$1,945,241	GLASSMAN 89-NM-517	
GRAPH-THEORETIC APPROACH TO FIXED-JOB RIVER ROUTING FOR VLSI DESIGN UNIV OF OKLAHOMA	TUAN TAI-CHING	N 36 17/04/89 \$198,232	GLASSMAN 89-NM-519	
A DECOMPOSITION-BASED INVESTIGATION OF A LARGE CLASS OF PERFECT GRAPHS CLD DOMINION UNIVERSITY	CLARIU STEPHEN	N 24 17/04/89 \$65,387	GLASSMAN 89-NM-522	
PARALLEL NETWORK OPTIMIZATION ALGORITHMS WITH APPLICATION TO ROUTING AND SCHEDULING SOUTHERN METHODIST UNIVERSITY	KENNINGTON JIMMIE	N 24 19/04/89 \$201,963	GLASSMAN 89-NM-527	
RESEARCH IN FIXED-INTEGER PROGRAMMING GEORGIA TECH RESEARCH CORPORATION	NENHAUSEF GEORGE	N 04 25/04/89 \$50,000	A GLASSMAN 89-NM-546	\$50,000 01/06/89 \$50,000
MERIT FUNCTIONS AND ACTIVE SET STRATEGIES FOR NONLINEAR PROGRAMMING TULANE UNIVERSITY	LAW VICTOR	N 36 28/04/89 \$241,938	GLASSMAN 89-NM-552	
ANALYSIS OF LINEAR PROGRAMMING RELAXATIONS OF COMBINATORIAL OPTIMIZATION PROBLEM MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BERTSIMAS CIMITRIS	N 36 05/05/89 \$348,909	GLASSMAN 89-NM-564	

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THEN ANALYSIS OF ACTIVITY NETWORKS UNDER GENERALIZED PRECEDENCE RELATIONS NORTH CAROLINA STATE UNIVERSITY	ELMAGHRASY SALAH	N 24 11/05/89 \$182,368	GLASSMAN 89-NM-575	
LARGE-SCALE NONLINEAR OPTIMIZATION PROBLEMS: PARALLEL PROCESSING, FAST COMPUTATION ALGORITHMS, AND GLOBAL OPTIMALITY UNIV OF CALIFORNIA	T. CHANG	N 36 12/05/89 \$1,542,918	D GLASSMAN 89-NM-592	
CODING THEORY AND COMPUTATIONAL COMPLEXITY UNIV OF TEXAS	HUYNH CUNG	N 36 16/05/89 \$50,000	D GLASSMAN 89-NM-584	
A FRAMEWORK FOR SOLVING COUNTING AND ENUMERATION PROBLEMS UNIV OF NORTH CAROLINA	FISHMAN GEORGE	N 36 24/05/89 \$467,037	GLASSMAN 89-NM-593	
DISCRETE METHODS AND THEIR APPLICATIONS RUTGERS - THE STATE UNIVERSITY	HAMMER PETER	N 36 06/06/89 \$751,851	A GLASSMAN 89-NM-614	\$150,000 01/10/89 \$497,000
PARALLEL ALGORITHMS FOR GLOBAL OPTIMIZATION AND RELATED PROBLEMS PENNSYLVANIA STATE UNIVERSITY	PARDALOS D.D.	N 24 10/06/89 \$135,390	GLASSMAN 89-NM-624	
MATROID MATCHING POLYHEDRA GEORGIA TECH RESEARCH CORPORATION	LLEWELLYN O.D.	N 24 20/06/89 \$351,628	GLASSMAN 89-NM-637	
CONTINUATION AND BIFURCATIONS INVESTIGATIONS IN CONSTRAINED OPTIMIZATION COLORADO STATE UNIVERSITY	POORE AUBREY	R 12 21/06/89 \$38,000	GLASSMAN 89-NM-640	
SHAPE OPTIMIZATION IN AEROTHERMODYNAMICS VIA ENTROPY MINIMIZATION PENNSYLVANIA STATE UNIVERSITY	DULINKAVICH GEORGE	N 36 27/06/89 \$250,000	GLASSMAN 99-NM-644	

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SOLUTION PROCEDURES FOR LARGE-SCALE COMBINATORIAL OPTIMIZATION PROBLEMS GEORGE MASON UNIVERSITY	HOFFMAN	N 36 27/06/89 \$748,410	GLASSMAN 89-NM-647	
ADMINISTRATION OF TRAVEL GRANT PROGRAM FOR THE 1990 INTERNATIONAL CONGRESS OF MATHEMATICIANS AMERICAN MATHEMATICAL SOCIETY	MAXWELL	N 18 16/05/89 \$51,000	D HOLLAND 89-NM-585	
APPLICATIONS OF THE FBI-TRANSFORM AND WAVELETS UNIV OF SOUTH CAROLINA	DEVORE	N 36 03/04/89 \$596,601	A NACHMAN 89-NM-462	\$125,000 01/09/89 \$375,000
COMPUTATIONAL AND ANALYTICAL METHODS IN NONLINEAR FLUID DYNAMICS LEHIGH UNIVERSITY	WALKER	N 36 03/04/89 \$760,291	A NACHMAN 89-NM-469	\$136,186 01/09/89 \$408,558
CONTROL AND STABILIZATION OF DISTRIBUTED PARAMETER SYSTEMS: THEORETICAL AND COMPUTATIONAL ASPECTS UNIV OF VIRGINIA	LASIECKA	N 36 04/04/89 \$750,000	A NACHMAN 89-NM-476	\$146,205 01/09/89 \$438,615
CENTER FOR ANALYSIS OF HETEROGENEOUS & NONLINEAR MEDIA NEW YORK UNIVERSITY	KOHN	N 36 12/04/89 \$1,627,920	NACHMAN 89-NM-490	
NON-LINEAR WAVE PROPAGATION UNIV OF COLORADO	ABLOWITZ	N 24 12/04/89 \$151,143	A NACHMAN 89-NM-491	\$73,969 01/11/89 \$151,143
PERTURBATION PROBLEMS IN FLUID DYNAMICS NEW YORK UNIVERSITY	TING	N 36 13/04/89 \$145,609	A NACHMAN 89-NM-494	\$48,218 15/10/89 \$145,609
PROBLEMS IN ACNLINEAR CONTINUM DYNAMICS UNIV OF WISCONSIN	SLEMROD	R 12 13/04/89 \$49,410	A NACHMAN 89-NM-495	\$49,410 15/10/89 \$49,410

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A STUDY OF INVERSE SYSTEMS		N 24		
ILLINOIS INSTITUTE OF TECHNOLOGY	MARVASTI	14/04/89	NACHMAN	
		\$68,025	89-NM-502	
ON THE EXISTENCE OF SOLUTION TO NONLINEAR DISSIPATIVE WAVE EQUATIONS		N 24		
HAMPTON UNIVERSITY	PIAMEE	14/04/89	NACHMAN	
		\$116,548	89-NM-506	
NONLINEAR RAYLEIGH-TAYLOR INSTABILITIES		N 36		
UNIV OF NEBRASKA	DOUGLASS	17/04/89	NACHMAN	
		\$421,854	89-NM-510	
AN INTERGRATED ENVIRONMENT FOR THE DEVELOPMENT OF SCIENTIFIC AND ENGINEERING APPLICATIONS		N 36		
UNIV OF ILLINOIS	KUCK	17/04/89	NACHMAN	
		\$2,231,711	89-NM-513	
AERODYNAMICS AND COMBUSTION ANALYTICAL AND NUMERICAL STUDIES		N 36		
RENSSELAER POLYTECHNIC INSTITUTE	COLE	19/04/89	NACHMAN	
		\$1,263,237	89-NM-531	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE		N 06		
AMERICAN STANDARDS TESTING BUREAU, INC.	BOLONKIN	01/05/89	NACHMAN	
		\$50,000	89-NM-555	
LONG-TIME BEHAVIOR OF MODELS IN ENGINEERING AND BIOLOGICAL SCIENCES		N 36		
UNIV OF MINNESOTA	WEINBERGER	05/05/89	NACHMAN	
		\$455,502	89-NM-566	
DEVELOP , APPLY AND EVALUATE WAVELET TECHNOLOGY		N 36		
AMARE, INC.	LAWTON	08/05/89	NACHMAN	
		\$1,192,000	89-NM-569	\$143,802 01/09/89 \$1,761,000
THE QUANTUM BEHAVIOR OF COUPLED NONLINEAR OSCILLATORS		N 04		
UNIV OF ARIZONA	SCOTT	10/05/89	NACHMAN	
		\$15,000	89-NM-573	\$15,000 01/06/89 \$15,000

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SUBMITTAL PF MONTHLY EXPENDITURE PLAN-CHIEF COPPLER RADAR INVESTIGATION RAYTHEON CO	BERNFELD MARVIN	N 24 10/05/89 \$469,809	A NACHMAN 89-NM-574	\$58,725 01/08/89 \$469,809
DEVELOPMENT OF COMBINED ASYMPTOTIC AND NUMERICAL PROCEDURES TO TREAT STABILITY OF HYPERSONIC BOUNDARY LAYERS ROCKWELL INTERNATIONAL	MALMUTH N.	N 36 12/05/89 \$149,950	NACHMAN 89-NM-577	
ANALYSIS AND COMPUTATION FOR VORTEX DYNAMICS AND RAREFIED GASES UNIV OF CALIFORNIA	CAFLISCH RUSSEL	N 12 12/05/89 \$60,000	A NACHMAN 89-NM-579	\$60,000 01/10/89 \$60,000
1990 AMS-SIAM SUMMER SEMINAR ON "VORTEX DYNAMICS AND VORTEX METHODS" AMERICAN MATHEMATICAL SOCIETY	MAXWELL JAMES	N 18 12/05/89 \$31,210	NACHMAN 89-NM-580	
LARGE SCALE STRUCTURE AND DYNAMICS OF CHAOTIC AND TURBULENT SYSTEMS CALIFORNIA INSTITUTE OF TECHNOLOGY	CROSS MICHAEL	N 36 16/05/89 \$358,986	NACHMAN 89-NM-588	
PROBABILISTIC METHODS FOR IMAGE GENERATION AND ENCODING GEORGIA TECH RESEARCH CORPORATION	BERGER MICHAEL	N 36 16/05/89 \$259,712	NACHMAN 89-NM-589	
TOMOGRAPHIC MATHEMATICAL IDEAS APPLIED TO RADAR DETECTION UNIV OF CALIFORNIA	GRUNBAUM F ALBERTO	N 24 18/05/89 \$45,000	A NACHMAN 89-NM-591	\$45,000 01/09/89 \$361,000
APPROXIMATE INERTIAL MANIFOLDS FOR A RENARD CONVECTION SYSTEM: ANALYSIS AND COMPUTATION CORNELL UNIVERSITY	STEEN P.	N 24 24/05/89 \$137,262	NACHMAN 89-NM-594	
GEOMETRY OF ENERGY MINIMIZING SURFACES RUTGERS - THE STATE UNIVERSITY	TAYLOR JEAN	R 12 31/05/89 \$50,546	A NACHMAN 89-NM-597	\$50,546 01/09/89 \$50,546

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MODELLING OF PHASE TRANSFORMATION KINETICS IN INHOMOGENECUS SYSTEMS UNIV OF ARIZONA	WEINBERGER	N 36 05/06/89 \$202,750	NACHMAN 89-NM-604	\$17,712 01/10/89 \$101,861
COMPUTATIONAL METHODS FOR NONDESTRUCTIVE INSPECTION				
RUTGERS - THE STATE UNIVERSITY	VOGELIUS	N 12 05/06/89 \$17,712	A NACHMAN 89-NM-605	\$17,712 01/10/89 \$101,861
MATHEMATICAL PROBLEMS CONCERNING RHYTHMIC PROCESSES				
BOSTON UNIVERSITY	KOPELL	N 12 05/06/89 \$59,886	A NACHMAN 89-NM-609	\$48,406 01/10/89 \$48,406
MECHANICS OF NON-ASSOCIATED INELASTIC MATERIALS				
STEVENS INSTITUTE OF TECHNOLOGY	NICHOLSON	N 24 08/06/89 \$139,031	NACHMAN 89-NM-616	
ADAPTIVE NEURAL NETWORK MODELS FOR INTELLIGENT				
UNIV OF MARYLAND	CHEN	N 36 08/06/89 \$895,849	A NACHMAN 89-NM-617	\$126,420 30/09/89 \$281,739
ANALYSIS AND DESIGN OF NEURAL NETWORKS				
UNIV. OF ILLINOIS	CYBENKO	N 28 08/06/89 \$674,392	A NACHMAN 89-NM-618	\$166,000 30/09/89 \$323,000
STABILITY BY HYDRODYNAMICAL MODELING				
INDIANA INSTITUTE OF TECHNOLOGY	SZADKOWSKI	N 24 10/06/89 \$81,931	D NACHMAN 89-NM-623	
PHYSICAL MODELLING AND SEGMENTATION OF SPECKLED SAR AND ULTRASOUND IMAGERY				
DREXEL UNIVERSITY	COHEN	N 24 10/06/89 \$177,262	NACHMAN 89-NM-625	
THE STUDY OF NONLINEAR TRANSIENT ELECTRICAL DISCHARGE THEORY				
LOS ALAMOS SCIENTIFIC LAB (DCE)	KADISH	N 36 16/06/89 \$300,000	A NACHMAN 89-NM-633	\$125,000 01/10/89 \$125,000

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THEORY AND APPLICATIONS OF NEURAL NETWORKS HARVARD UNIVERSITY	BROCKETT	N 24 16/06/89 \$925,000	A NACHMAN 89-NM-635	\$205,195 30/09/89 \$425,174
STATISTICAL BENCHMARKS FOR NEURAL NETWORK CLASSIFICATION PERFORMANCE CORNELL UNIVERSITY	FINE	N 24 21/06/89 \$185,360	A NACHMAN 89-NM-638	\$104,312 30/09/89 \$225,024
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: CALCULATION OF THE PROBABILITY OF UNDETECTED ERROR FOR CERTAIN ERROR DETECTION CODES QUALCOMM, INC.	VITERBI	R 06 21/06/89 \$157,760	NACHMAN 89-NM-639	
STABILITY ANALYSIS OF FAULT-TOLERANT REAL-TIME MULTIPROCESSOR SYSTEMS UNIV OF NEBRASKA	DEGLIN	N 36 06/04/89 \$239,877	NELSON 89-NM-480	
CONTINUATION AND MULTI-GRID METHODS FOR BIFURCATION PROBLEMS ARIZONA STATE UNIVERSITY	MITTELMANN	N 36 06/04/89 \$207,192	NELSON 89-NM-488	
AN INTEGRATED TOOL FOR PERFORMANCE MODELING OF MISSION CRITICAL -PARALLEL SOFTWARE CLARKSON UNIVERSITY	AMMAR	N 55 14/04/89 \$960	NELSON 89-NM-504	
A MULTI-LEVEL PARALLEL SCIENTIFIC COMPUTATIONAL METHODOLOGY FOR DISTRIBUTED PARAMETER SYSTEMS TEXAS ENGINEERING EXPERIMENT CENTER	HUANG	N 24 17/04/89 \$927,988	NELSON 89-NM-511	
PARALLEL PROCESSING AND SCIENTIFIC APPLICATIONS UNIV OF COLORADO	MCBRYAN	N 36 24/04/89 \$1,060,349	A NELSON 89-NM-534	\$250,000 01/07/89 \$750,000
INVESTIGATIONS ON IMPROVED ITERATIVE METHODS FOR SOLVING SPARSE SYSTEMS OF LINEAR EQUATIONS KENT STATE UNIVERSITY	VARGA	R 36 24/04/89 \$323,975	NELSON 89-NM-536	

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PRECONDITIONING TECHNIQUES FOR ADVANCED SCIENTIFIC COMPUTING BROOKHAVEN NATIONAL LABORATORY	PASCIAK JOSEPH	N 36 24/04/89 \$559,554	NELSON 89-NM-540	
EFFICIENT NUMERICAL METHODS FOR EVOLUTION PARTIAL DIFFERENTIAL EQUATIONS UNIV OF TENNESSEE	KARAKASHIAN CHANNES	R 24 24/04/89 \$69,028	NELSON 89-NM-544	
NATURAL LANGUAGE KNOWLEDGE REPRESENTATION ROME AIR DEVELOPMENT CENTER		N 09 10/05/89 \$8,709	A NELSON 89-NM-572	\$8,709 01/06/89 \$8,709
APPROXIMATE INERTIAL MANIFOLDS AND NONLINEAR GALERKIN METHODS UNIV OF INDIANA	FOIAS CIPRIAN	N 36 12/05/89 \$833,718	NELSON 89-NM-581	
MULTI-GRID AND MULTILEVEL COMPUTATIONS WEIZMANN INSTITUTE OF SCIENCE	BRANDT ACHMI	R 36 31/05/89 \$670,307	NELSON 89-NM-596	
WORKSHOP ON FUTURE DIRECTION IN CONTROL THEORY NATIONAL ACADEMY OF SCIENCES	COX	N 12 31/05/89 \$87,500	A NELSON 89-NM-598	\$87,500 01/06/89 \$87,500
NATURAL LANGUAGE/KNOWLEDGE REPRESENTATIONS ROME AIR DEVELOPMENT CENTER	BRIMMAR RICHARD	N 09 01/06/89 \$8,709	A NELSON 89-NM-600	\$8,709 01/06/89 \$8,709
PARALLEL COMPUTATION CALIFORNIA INSTITUTE OF TECHNOLOGY	CHANCY K MANI	N 12 02/06/89 \$170,000	A NELSON 89-NM-601	\$161,000 01/06/89 \$161,000
INTERACTIVE SCIENTIFIC VISUALIZATION UNIV OF CALIFORNIA	WILHELMS JANE	N 24 05/06/89 \$300,343	NELSON 89-NM-602	

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INTERACTIVE MODELING AND MANIPULATION OF COMPLEX THREE-DIMENSIONAL WORLDS USING PHYSICAL SIMULATION UNIV OF CALIFORNIA	WILHELMS JANE	N 24 05/06/89 \$215,401	D NELSON 89-NM-603	
COMPUTATIONAL METHODS FOR FLOW PROBLEMS PARALLEL ALGORITHMS, FLOW CONTROL AND NCVEL APPROACHES VIRGINIA POLYTECHNIC INST & STATE UNIV	GUNZBURGER MAX	N 36 15/06/89 \$399,697	NELSON 89-NM-632	
PARALLEL DOMAIN DECOMPOSITION, PRECONDITIONERS, AND MULTIGRID METHODS FOR SOLVING 3-D ELLIPTIC PDE PROBLEMS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	HWANG KAI	N 36 06/04/89 \$451,060	WAKSMAN 89-NM-491	
AN INTELLIGENT MATHEMATICAL MODELLING SYSTEM - MATHMCDL COMPUTER COMMAND & CONTROL COMPANY	PRYMES NOAH	N 18 06/04/89 \$212,000	WAKSMAN 89-NM-489	
RESEARCH IN FAULT TOLERANT PARALLEL AND DISTRIBUTED MULTIPROCESSOR NETWORKS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	RAGHAVENRA C.	N 36 17/04/89 \$415,614	WAKSMAN 89-NM-509	
GENETIC ALGORITHMS FOR VISUAL RECONSTRUCTION PROBLEMS IN COMPUTER VISION UNIV OF FLORIDA	VENURI S. S. S. S.	N 36 17/04/89 \$227,513	WAKSMAN 89-NM-514	
SHAPE FROM TEXTURE--A BAYESIAN APPROACH DREXEL UNIVERSITY	COHEN FERNANDO	N 24 17/04/89 \$173,128	WAKSMAN 89-NM-515	
AN EXPERT SYSTEM APPROACH TO MOTION TRACKING BASED ON RANGE PROGRAMS TEXAS ENGINEERING EXPERIMENT CENTER	KENTARNAVAZ N.	N 12 17/04/89 \$52,557	WAKSMAN 89-NM-516	
EFFECTS OF INFORMATION FORMATS ON DATA DETECTION, RETRIEVAL AND ENTRY OPERATIONS UNIV OF MARYLAND BALTIMORE COUNTY	EMURIAN HENRY	N 36 17/04/89 \$80,884	WAKSMAN 89-NM-520	

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APPLICATIONS OF LOGIC IN COMPUTATION UNIV OF PENNSYLVANIA	BUNEPAN	N 36 19/04/89 \$807,387	WAKSMAN 89-NM-528	
SUFFICIENT CONDITION FOR A COMMUNICATION DEADLOCK AND A DISTRIBUTED DEADLOCK DETECTION PROTOCOL WICHITA STATE UNIVERSITY	WOJCIK	N 12 24/04/89 \$63,193	WAKSMAN 89-NM-533	
ITERATION THEORIES, MATRICIAL THEORIES AND PROGRAM CORRECTNESS STEVENS INSTITUTE OF TECHNOLOGY	BLOOM	N 36 24/04/89 \$78,008	WAKSMAN 89-NM-537	
A DEBUGGER FOR CONCURRENT PROGRAMS UNIV OF CALIFORNIA	OLSSON	N 36 24/04/89 \$321,541	WAKSMAN 89-NM-539	
A SIMPLIFIED ARITHMETIC FOURIER TRANSFORM ALGORITHM UNIV OF SOUTHERN CALIFORNIA	REED	N 12 24/04/89 \$112,467	WAKSMAN 89-NM-539	
COMMUNICATION COSTS OF SYNCHRONIZATION IN PRACTICAL NETWORK CONFIGURATIONS UNIV OF TEXAS	ROBBINS	N 36 24/04/89 \$203,482	WAKSMAN 89-NM-541	
GRASSMANN ALGEBRA APPROACH TO SYMBOLIC ANALYSIS FOR DYNAPIC SYSTEMS BOSTON UNIVERSITY	CHEN	N 24 24/04/89 \$226,589	WAKSMAN 89-NM-542	
DESIGN & DIAGNOSIS PROBLEM SOLVING WITH MULTIFUNCTIONAL TECHNICAL KNOWLEDGE BASES OHIO STATE UNIVERSITY	CHANDRASEKARAN	N 24 28/04/89 \$570,000	WAKSMAN 89-NM-547	\$200,000 15/08/89 \$570,406
AN INTERACTIVE SOFTWARE PACKAGE FOR SIMULATING CONTINUOUS-TIME SYSTEMS IN A MULTI-PROCESSOR ENVIRONMENT UNIV OF NEBRASKA	VAKILZADIAN	N 18 28/04/89 \$106,298	WAKSMAN 89-NM-549	

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A VERY LARGE ANNOTATED DATA BASE OF WRITTEN AND SPOKEN AMERICAN ENGLISH UNIV OF PENNSYLVANIA	MARCLS	N 36 02/05/89 \$694,438	A WAKSMAN 89-NM-556	\$195,000 01/09/89 \$694,438
IDENTIFICATION OF PERFORMANCE FAILURES BASED ON DIAGNOSTIC REASONING INNOVATIVE RESEARCH INC.	PAZIRANDEH	N 06 04/05/89 \$50,540	WAKSMAN 89-NM-557	
QUALITY MEASURES FOR THE MAPPING PROBLEM UNIV OF CALIFORNIA, SAN DIEGO	BERMAN	N 36 05/05/89 \$312,506	WAKSMAN 89-NM-568	
MOTION ANALYSIS AND ITS APPLICATIONS UNIV OF SOUTHERN CALIFORNIA	NEVATIA	N 36 08/05/89 \$248,469	A WAKSMAN 89-NM-570	\$0 01/08/89 \$17,972
AN ADAPTIVE PLANNER FOR REAL-TIME UNCERTAIN ENVIRONMENTS UNIV OF MASSACHUSETTS	COHEN	N 36 15/05/89 \$111,354	A WAKSMAN 89-NM-583	\$111,354 30/09/89 \$750,000
ADAPTIVE ERROR CORRECTION USING NEURAL NETS UNIVERSITY OF SOUTHERN CALIFORNIA	REED	N 24 24/05/89 \$139,144	WAKSMAN 89-NM-592	
ADAPTIVE DYNAMICS FOR NEURAL COMPUTATION JET PROPULSION LABORATORY	PINEDA	N 36 05/06/89 \$210,500	WAKSMAN 89-NM-606	
TOWARDS CONTROL OF TIME-VARYING SYSTEMS: QUALITATIVE AND QUANTITATIVE MODELING NORTHEASTERN UNIVERSITY	KOKAR	N 24 05/06/89 \$186,188	WAKSMAN 89-NM-607	
ARCHITECTURE OF A REAL-TIME MULTITASKING RISC GEORGE MASON UNIVERSITY	TABAK	N 24 05/06/89 \$313,751	WAKSMAN 89-NM-608	

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PROBABILISTIC ANALYSIS OF NEURAL NETWORKS UNIV OF ARIZONA	FARIS WILLIAM	R 12 05/06/89 \$63,348	WAKSMAN 89-NP-610	
PARTIAL SUPPORT FOR AN INTERNATIONAL SYMPOSIUM ON ARTIFICIAL INTELLIGENCE AND MATHEMATICS FLORIDA ATLANTIC UNIVERSITY	HOFFMAN FREDERICK	N 01 05/06/89 \$6,680	WAKSMAN 89-NM-611	
A BIDIRECTIONAL APPROACH TO THE MAPPING OF ALGORITHMS UNIV OF PITTSBURGH	H. CHUANG HENRY	N 36 05/06/89 \$470,327	WAKSMAN 89-NM-612	
INTELLIGENT, REAL TIME-PROBLEM SOLVING UNIV OF MASSACHUSETTS	COHEN PAUL	N 03 08/06/89 \$30,000	A WAKSMAN 89-NM-619	\$30,000 15/09/89 \$30,000
INTELLIGENT REAL TIME PROBLEM SOLVING: CONCEPTUAL ANALYSIS OF ISSUES, IDEAS AND RESULTS STANFORD UNIVERSITY	SHOHAM YDAN	N 03 08/06/89 \$40,000	A WAKSMAN 89-NM-620	\$40,000 15/09/89 \$40,000
INTELLIGENT REAL TIME PROBLEM SOLVING MATHEMATICAL SCIENCES NORTHWEST INC	LARK YDAN	N 03 09/06/89 \$25,000	A WAKSMAN 89-NM-621	\$25,000 30/09/89 \$25,000
INTELLIGENT REAL TIME PROBLEM-SOLVING, ISSUES, CONCEPTS, AND RESEARCH METHODOLOGY TELOS RESEARCH	ROSENSCHEIN STANLEY	N 03 09/06/89 \$55,000	A WAKSMAN 89-NM-622	\$55,000 15/09/89 \$55,000
INTEGRATION OF STEREO VISION AND OPTICAL FLOW USING ENERGY MINIMIZATION APPROACH WORCESTER POLYTECHNIC INSTITUTE	NASRABADI NASSER	N 12 15/06/89 \$57,600	WAKSMAN 89-NM-631	
AGREATION NETWORKS FOR UNCERTAINTY MANAGEMENT UNIV OF MISSOURI	KRISHNAPURAM RAGHU	N 24 23/06/89 \$129,000	A WAKSMAN 89-NM-641	\$62,000 01/10/89 \$129,000

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TITLE
TITLE (CONT.)
INSTITUTION

CONSTRUCTIVE COMPUTER PROGRAMMING
STANFORD UNIVERSITY

INVESTIGATOR

MANNA

ZOHAR

TYPE/MONTHS
RECEIVED
AMOUNT

N 30
23/06/89
\$292,500

STATUS
PROGRAM MANAGER
PROPOSAL #

A
WAKSMAN
89-NM-642

INITIATE
START DATE
TOT AMT

\$107,899
01/11/89
\$346,399

21064

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
EXPERIMENTAL RESEARCH ON HIGH GRADIENT ACCELERATION BY WAKEFIELDS IN AN ELLIPTIC CAVITY AT THE UTA WAKE FIELD TEST FACILITY TEXAS A AND M RESEARCH FOUNDATION	CHEN	R 12 05/04/89 \$110,000	A BARKER 89-NP-163	\$110,000 01/07/89 \$110,000
BACKWARD WAVE OSCILLATOR INVESTIGATIONS IN THE RAMAN REGIME UNIV OF NEW MEXICO	SCAMPILOGLU	N 12 21/04/89 \$99,907	A BARKER 89-NP-177	\$99,907 01/08/89 \$99,907
ANOMALOUS PLASMA ABSORPTION OF ELECTROMAGNETIC RADIATION NAVAL RESEARCH LABORATORY	ROWLAND	N 05 24/04/89 \$60,000	A BARKER 89-NP-179	\$60,000 01/05/89 \$60,000
INTENSE ELECTRON BEAM CYCLOTRON MASERS WITH MICROSECOND PULSELENGTH UNIV OF MICHIGAN	GILGENBACH	R 12 03/03/89 \$59,848	A BARKER 89-NP-191	\$59,848 01/09/89 \$59,848
SUPPORT FOR THE FORTY-SECOND ANNUAL CASECLS ELECTRONICS CONFERENCE SRI INTERNATIONAL	HUESTIS	N 12 04/05/89 \$8,500	A BARKER 89-NP-188	\$8,500 01/09/89 \$8,500
MICROWAVE EMISSION FROM RELATIVISTIC ELECTRON BEAMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BEKEPI	R 12 19/05/89 \$120,000	A BARKER 89-NP-193	\$120,000 01/11/89 \$120,000
ANOMALOUS PLASMA ABSORPTION OF ELECTROMAGNETIC RADIATION NAVAL RESEARCH LABORATORY	ROWLAND	N 04 25/05/89 \$2,265	A BARKER 89-NP-197	\$2,265 01/06/89 \$2,265
COMPUTER SIMULATIONS OF RADIATION GENERATION FROM RELATIVISTIC ELECTRON BEAMS UNIV OF CALIFORNIA	LIN	R 12 09/06/89 \$120,000	A BARKER 89-NP-202	\$120,000 01/10/89 \$120,000
COMPACT MILLIPETER WAVE DEVICES: DIELECTRIC LOADED CARM, HIGH VOLTAGE CARM, SLOW WAVE CRM AND HIGH HARMONIC GYROTRON UNIV OF CALIFORNIA	LUHMANN, JR.	R 12 27/06/89 \$100,000	A BARKER 89-NP-209	\$100,000 01/12/89 \$100,000

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOY AMT
MOLECULAR ASSOCIATION AND LASER-ASSISTED ELECTRON-(EXCITED) ATOM COLLISIONS GEORGIA TECH RESEARCH CORPORATION	FLANNERY	R 12 03/04/89 \$111,174	A KELLEY 89-NP-156	\$111,174 01/07/89 \$111,174
LIGHT FROM THE EXCITATION OF GASES WITH POSITIVE IONS UNIV OF ARIZONA	BASHKIN	N 36 03/04/89 \$328,870	KELLEY 89-NP-157	
SPIN-POLARIZED ELECTRON SCATTERING FROM TRANSITION METAL ATOMS NATIONAL INST. OF STANDARDS & TECHNOLOGY	MCCLELLAND	N 36 03/04/89 \$232,300	KELLEY 89-NP-158	
PHYSICS OF EXOTIC ATOMS UNIV OF CINCINNATI	RUSSELL	N 24 04/04/89 \$86,841	KELLEY 89-NP-162	
SURFACE PRODUCTION OF IONS STEVENS INSTITUTE OF TECHNOLOGY	SEIDL	N 36 03/05/89 \$750,000	A KELLEY 89-NP-183	\$250,000 01/10/89 \$500,000
INELASTIC ELECTRON COLLISIONAL PROCESSES UNIV OF WISCONSIN	LIN	R 12 04/05/89 \$167,751	KELLEY 89-NP-187	
VERY LOW ENERGY ELECTRON SCATTERING UNIV OF NORTH TEXAS	GOLDEN	N 36 04/05/89 \$408,864	KELLEY 89-NP-192	
VIBRATION-ROTATION INTERACTIONS IN SELECT MOLECULAR SYSTEMS UNIV OF NORTH TEXAS	ROBERTS	N 36 19/05/89 \$153,609	KELLEY 89-NP-194	
INVESTIGATIONS INTO THE MECHANISMS OF HYDROGEN ION RECOMBINATION UNIV OF WESTERN ONTARIO	MITCHELL	R 24 08/06/89 \$110,824	KELLEY 89-NP-199	

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STRUCTURE AND DYNAMICS OF EXCITED ATOMS UNIV OF VIRGINIA	GALLAGHER THOMAS	R 12 15/06/89 \$180,202	KELLEY 89-NP-203	
INVESTIGATION OF PHOTONS EMITTED FROM ANTI-PROTON ANNIHILATION UNIV OF VIRGINIA	THORNTON STEPHEN	N 12 20/06/89 \$12,246	KELLEY 89-NP-204	
PRECISION FREQUENCY METROLOGY USING LASER COOLED IONS NATIONAL INST. OF STANDARDS & TECHNOLOGY	WINELAND D. J.	N 12 21/06/89 \$165,000	KELLEY 89-NP-206	
THE 12 UM CONTRIBUTION OF NEARBY GALAXIES TO THE INFRARED BACKGROUND UNIV OF VIRGINIA	THUAN	N 36 12/04/89 \$158,427	A RADOSKI 89-NP-164	\$28,876 01/08/89 \$158,427
STEPS TOWARD UNDERSTANDING THE SOLAR DYNAMO UNIV OF HAWAII	LABONTE BARRY	N 36 14/04/89 \$2,118,982	RADOSKI 89-NP-169	
A GLOBAL INVESTIGATION OF THE SOLAR CYCLE CALIFORNIA INSTITUTE OF TECHNOLOGY	ZIRIN MELISSA	N 36 14/04/89 \$2,880,598	RADOSKI 89-NP-170	
EXPERIMENTAL TESTS OF DYNAMO MODELS FOR THE SOLAR CYCLE: A PROPOSAL TO BUILD THE SOLAR DISK SEXTANT YALE UNIVERSITY	SOFIA SABATINO	N 36 14/04/89 \$3,026,375	RADOSKI 89-NP-171	
SHOCK WAVES IN CORONAL AND INTERPLANETARY SPACE CATHOLIC UNIVERSITY OF AMERICA	WHANG YUN	R 36 03/05/89 \$303,000	D RADOSKI 89-NP-186	
LARGE-SCALE VELOCITY FIELDS AND SMALL-SCALE MAGNETIC FIELDS DURING THE MAXIMUM OF SOLAR CYCLE 22 CALIFORNIA INSTITUTE OF TECHNOLOGY	MARTIN SARA	R 36 04/05/89 \$628,023	A RADOSKI 89-NP-190	\$210,828 01/10/89 \$628,023

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SOLAR VECTOR MAGNETIC FIELD RESEARCH				
JOHNS HOPKINS UNIVERSITY	RUST	N 36 08/06/89 \$617,800	A RADOSKI 89-NP-200	\$197,000 01/12/89 \$617,800
GAMMA-RAY LINES AND CONTINUUM EMISSIONS FROM SOLAR FLARES: DEVELOPMENT OF A PROTOTYPE AND INITIAL BALLOON FLIGHTS UNIV OF NEW HAMPSHIRE	EDWARD	N 36 23/06/89 \$543,189	RADOSKI 89-NP-208	
PROPOSAL FOR NOVEL APPLICATIONS OF NONLINEAR PHASE CONJUGATION				
HUGHES AIRCRAFT CO	PEPPER	N 36 03/04/89 \$427,940	SCHLOSSBER 89-NP-159	
PHOTON LOCALIZATION, BALLISTIC PROPAGATION, REFLECTION & SCATTERING IN RANDOM MULTILAYER DIELECTRIC & SEMICONDUCTOR THIN FILMS CITY COLLEGE - CUNY	ALFANO	N 36 03/04/89 \$481,554	SCHLOSSBER 89-NP-160	
NONLINEAR OPTICAL PHENOMENA AND FEMTOSECOND IMAGING				
UNIV OF NEBRASKA	ALEXANDER	N 36 13/04/89 \$314,808	SCHLOSSBER 89-NP-165	
A NOVEL APPROACH FOR NEW RADIATION SOURCES BASED ON SOLID STATE PLASMA INSTABILITIES BOSTON COLLEGE	BAKSHI	N 36 13/04/89 \$252,270	SCHLOSSBER 89-NP-166	
SHORT WAVELENGTH X-RAY LASING USING A COMPRESSED CHIRPED LASER				
UNIV OF ROCHESTER	YAAKUBI	N 24 13/04/89 \$264,940	SCHLOSSBER 89-NP-167	
UNIVERSITY RESEARCH INITIATIVE PROGRAM FOR ULTRAVIOLET/EXTREME ULTRAVIOLET (LV/XUV) RESEARCH DUKE UNIVERSITY	MADEY	N 36 13/04/89 \$3,903,462	SCHLOSSBER 89-NP-168	
X-RAY OPTICS FOR SCIENCE AND TECHNOLOGY				
UNIV OF CALIFORNIA	ATTWOOD, JR.	N 36 14/04/89 \$2,340,013	SCHLOSSBER 89-NP-172	

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SAMPLE/TORQUE MAGNETOMETER UNIV OF ARIZONA	MANSURIPUR MASUD	N 12 14/04/89 \$159,147	SCHLOSSBER 89-NP-173	
LABORATORY FOR X-RAY OPTICS UNIV OF ARIZONA	FALCC CHARLES	N 36 18/04/89 \$1,265,000	SCHLOSSBER 89-NP-175	
EFFICIENCY OF THE BROAD-BAND EMITTING MATERIALS BOSTON UNIVERSITY	LEMPICKI ALEXANDER	N 36 24/04/89 \$384,576	SCHLOSSBER 89-NP-178	
SELF ENERGY APPROACH TO QUANTUM ELECTRODYNAMICS UNIV OF COLORADO	BARUT A.	N 12 02/05/89 \$180,716	D SCHLOSSBER 89-NP-180	
THEORY/ELECTROMAGNETIC WAVES PROPAGATING IN NONLINEAR ANISOTROPIC OPTICAL MATERIALS/ANALYTICAL SOLUTIONS TO MAXWELL EQUATIONS KENT STATE UNIVERSITY	DAVID MOROI	N 36 03/05/89 \$224,691	SCHLOSSBER 89-NP-182	
STUDIES OF ELECTROMAGNETIC COUPLING AT ULTRAHIGH INTENSITIES UNIV OF CALIFORNIA	RHODES	N 12 03/05/89 \$200,000	SCHLOSSBER 89-NP-184	
CONFERENCE ON NONLINEAR OPTICS INST. OF ELECTRICAL & ELECTRONICS ENGRG	WANGEMANN ROBERT	N 06 03/05/89 \$10,000	SCHLOSSBER 89-NP-185	
RESEARCH WITH SCANNING TIP MICROSCOPES UNIV OF ARIZONA	SARIC DROR	N 36 04/05/89 \$399,751	A SCHLOSSBER 89-NP-189	\$45,000 15/09/89 \$397,751
US/USSR SYMPOSIUM ON THE PHYSICS OF OPTICAL PHENOMENA AND THEIR USE AS PROBES OF MATTER UNIV OF CALIFORNIA	MARALUDIN ALEXEI	N 06 04/05/89 \$25,650	D SCHLOSSBER 89-NP-191	

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NONLINEAR LASER SPECTROSCOPY STUDIES OF SEMICONDUCTOR HETERO- STRUCTURES UNIV OF MICHIGAN	STEEL CUNCAN	N 36 19/05/89 \$408,021	SCHLOSSBER 89-NP-195	
NONLINEAR DYNAMICS OF PHASE-LOCKED SEMICONDUCTOR LASER ARRAYS UNIV OF MICHIGAN	WINFUL HERBERT	N 36 24/09/89 \$561,438	SCHLOSSBER 89-NP-196	
NONLINEAR OPTICAL STUDIES OF ULTRATHIN SILICIDE FILMS ON SILICON UNIV OF PENNSYLVANIA	YOOH ARJUN	N 36 09/06/89 \$269,729	SCHLOSSBER 89-NP-201	
UPCONVERSION PUMPED LASERS AND TUNABLE SOLID STATE SOURCE HUGHES RESEARCH LABORATORIES	ROSS MCFARLANE	N 36 21/06/89 \$600,062	SCHLOSSBER 89-NP-205	
FIFTH INTERNATIONAL SYMPOSIUM ON THE PRODUCTION & NEUTRALIZATION OF NEGATIVE IONS & BEAMS BROOKHAVEN NATIONAL LABORATORY	ADY HERSCOVITCH	N 05 17/04/89 \$10,000	A SMITH 89-NP-174	\$10,000 01/06/89 \$10,000
THE PHYSICS OF HIGH POWER SEMICONDUCTOR SWITCHES POLYTECHNIC UNIVERSITY	KUNHARDT	N 36 19/04/89 \$343,877	SMITH 89-NP-176	
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES (COMMITTEE ON GEODESY) NATIONAL ACADEMY OF SCIENCES	LONG ROBERT	N 12 01/06/89 \$7,000	A SMITH 89-NP-198	\$7,000 29/09/89 \$7,000
FUNDAMENTAL PROCESSES IN PARTIALLY IONIZED PLASMAS STANFORD UNIVERSITY	KRUGER CHARLES	R 24 21/06/89 \$456,354	A SMITH 89-NP-207	\$220,262 01/10/89 \$456,354